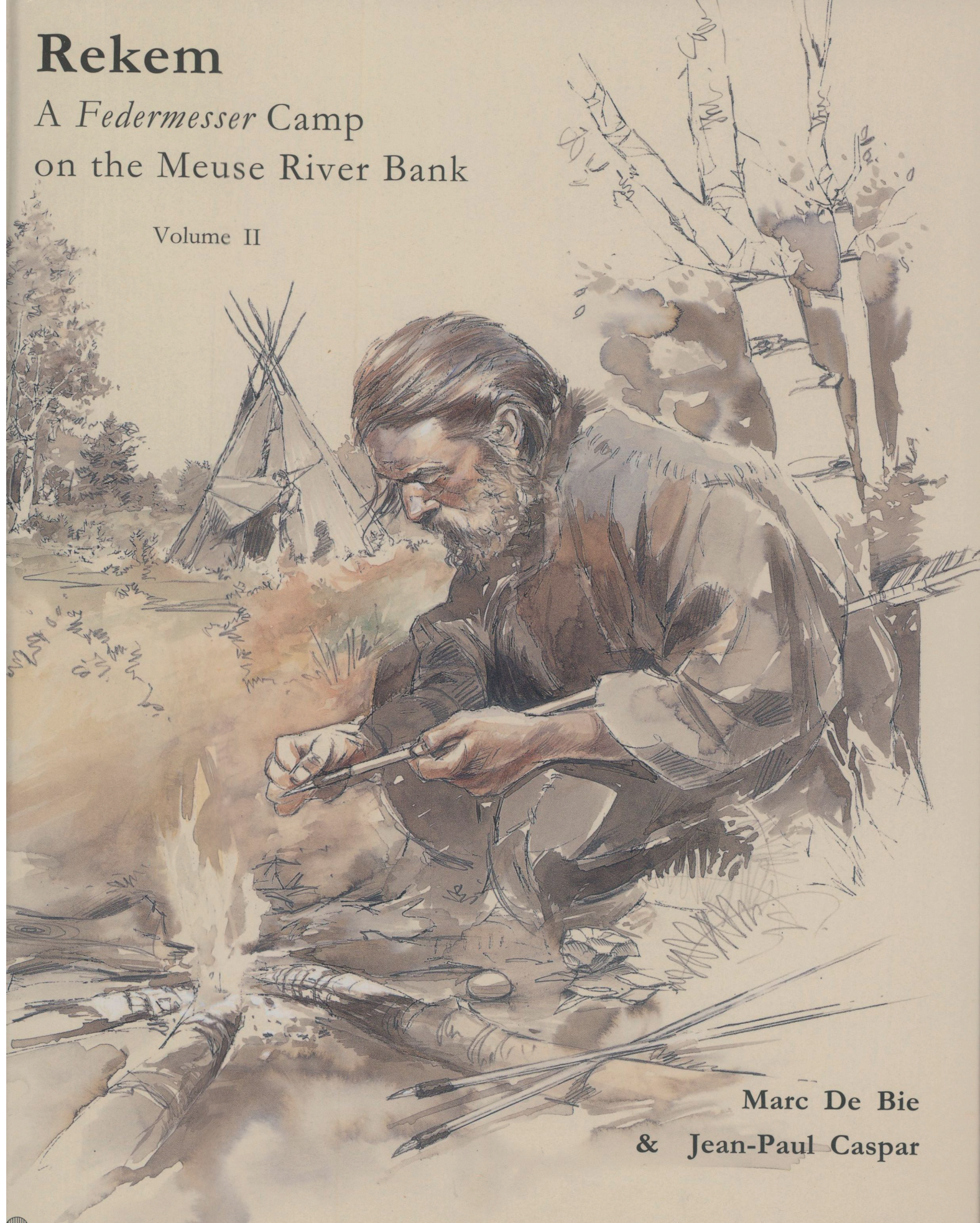


Rekem

A Federmesser Camp on the Meuse River Bank

Volume II



Marc De Bie
& Jean-Paul Caspar



Instituut voor het
Archeologisch Patrimonium

Leuven
University Press

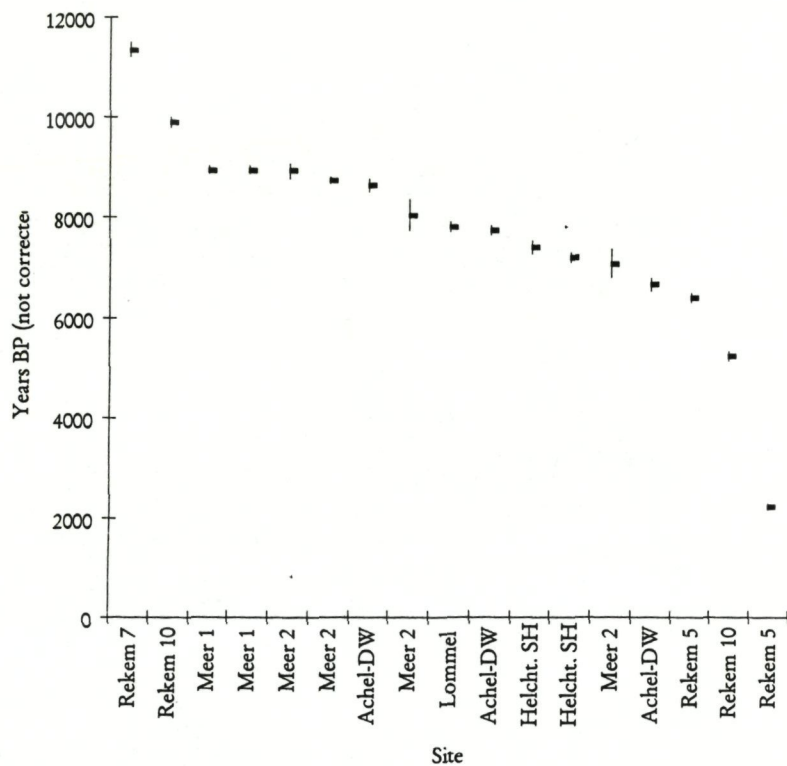


ERRATUM p. 123

Maps of flint refits (Map 27-113)

- Chip
- Flake or blade
- Core
- ▲ Burin
- Scraper
- ↙ Burin spall
- ↗ Krukowski microburin
- I Lateral modified laminar piece
- ▽ Borer/bec/reamer
- ◇ Other retouched tool
- ☆ Composite tool
- >— Refit of debitage sequence (ventro-dorsal)
- ...>... Modification refit (tool waste on tool)
- .-.-.- Break refit

22 Radiocarbon dates of Federmesser sites in Flanders (1 σ).



Rekem

A *Federmesser* Camp
on the Meuse River Bank

Archeologie in Vlaanderen

Monografie 3

Uitgegeven door / edited by

Prof. Dr. Guy De Boe

&

Acta Archaeologica Lovaniensia

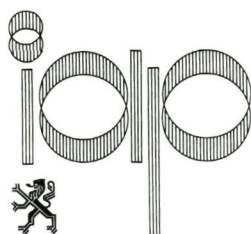
Monographiae 10

Rekem

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PLATES

Legend of symbols and codes used on plates

Plates of flint blanks, tools, tool waste, and edge-damaged artefacts (Pl. 8-9 & Pl. 68-107)

Technological symbols

↑	direction of debitage with butt preserved
⬆	direction of debitage without butt
↓	burin blow
	break

Usewear traces: motions

————	longitudinal
- · - · - · -	transverse
-----	rotative
- · - · - · - · -	grooving
	projectile (MLIT)
o o o o	barb
· · · · ·	undetermined motion
XXXXX	hafting traces
└─┘	microwear ends abruptly

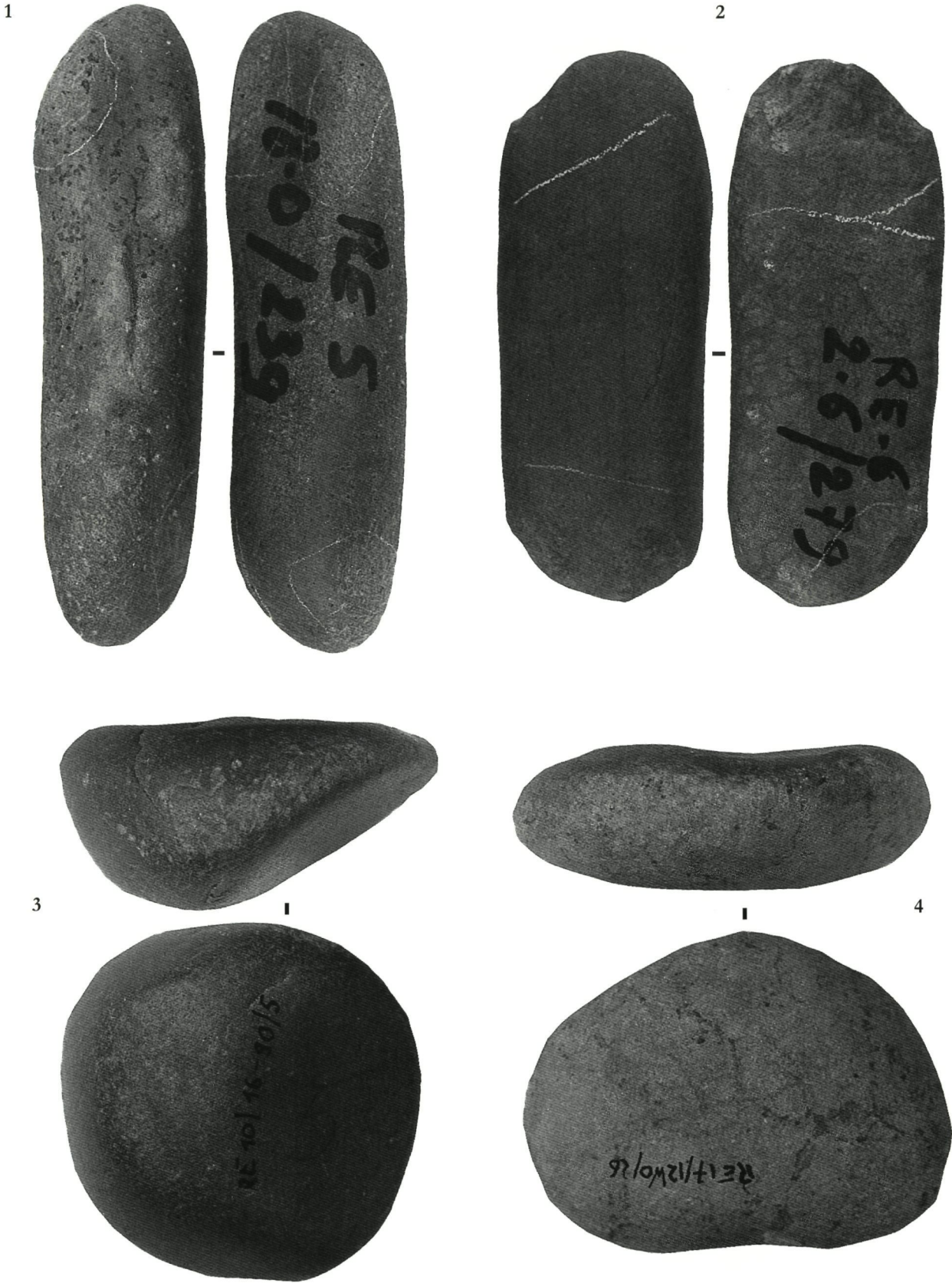
Usewear traces: nature of the contact material

10	mineral
23	hard, non-woody plant
24	wood
249	wood, with element of uncertainty
30	soft animal matter (meat, hide, tendons)
321	fresh/wet hide
322	dry hide
323	(supple) dry hide
329	hide in an undeterminable state
40	hard animal matter (bone or antler)
41	bone
409	hard animal matter, with element of uncertainty
50	carcass
73	hard material

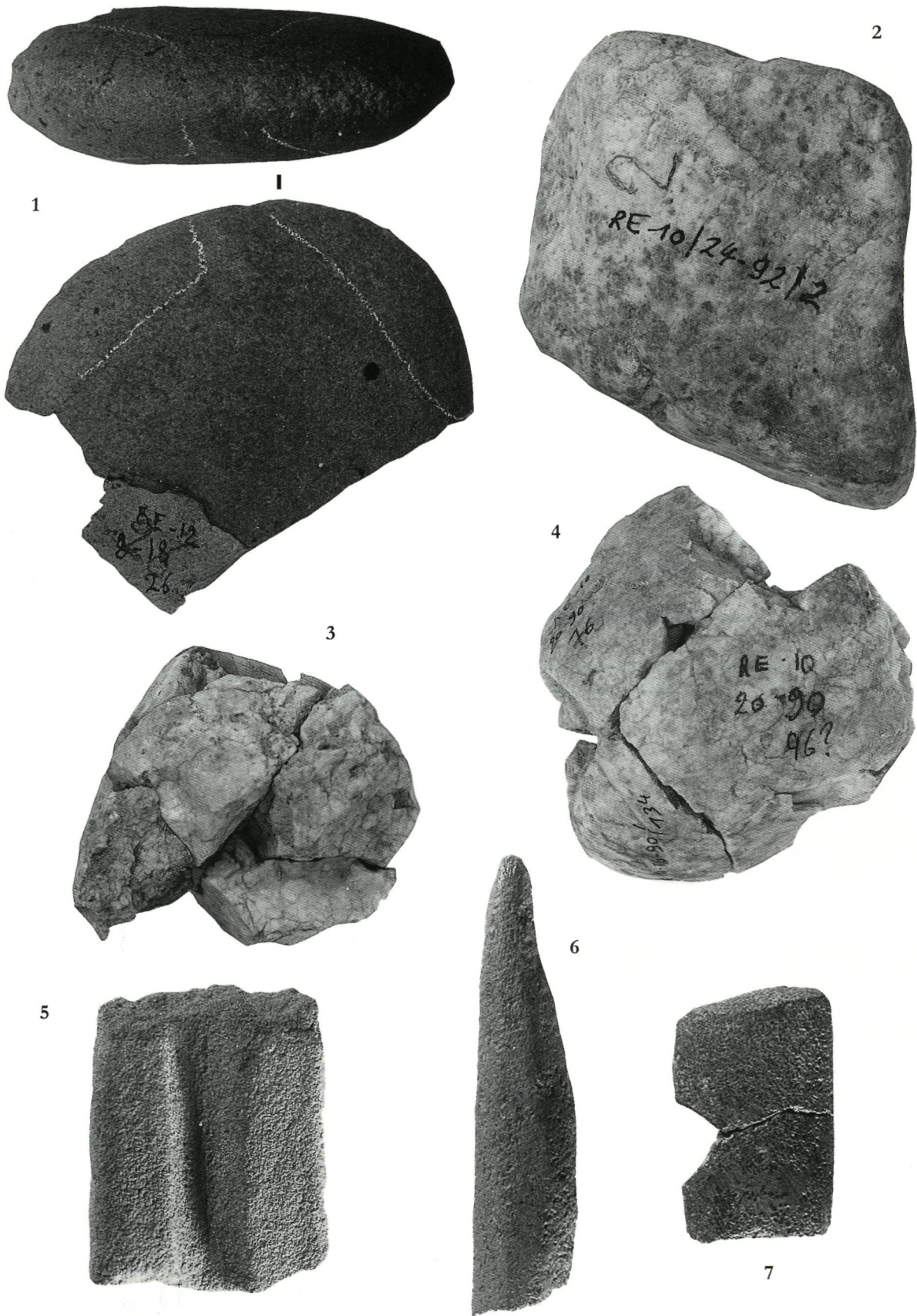
Scale:

Pl. 1-107: 1:1
Pl. 3 & 5: 1:2.

Pl. 1 *Retouchoirs & hammerstones from Rekem 5 (1), Rekem 6 (2), Rekem 10 (3), and Rekem 15 (4).*



Pl. 2 Hammerstone (1), quartzes (2-4), a 'shaft polisher' (5), and red ochre fragments with polished facets (6-7) from Rekem 12 (1), Rekem 10 (2-4), Rekem 6 (5, 7), and Rekem 4 (6). 1, 3, 4 and 7 are refitted.



Pl. 3 'Heavy duty tools' (1-3), and a large slab with cutting traces (4); from Rekem 6 (1-2), and Rekem 5 (3-4). 3 and 4 are refitted. Scale: 1:2.



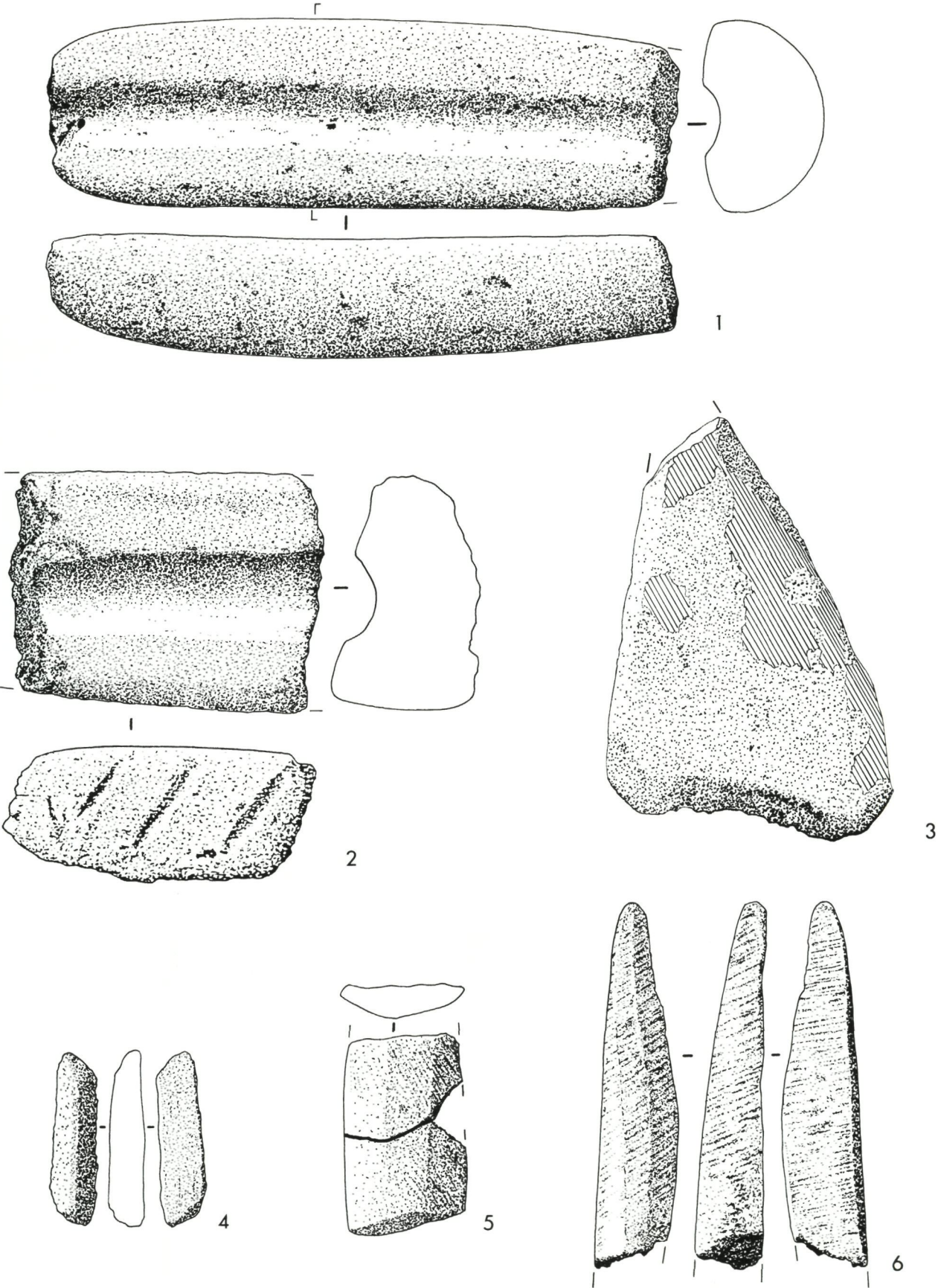
Pl. 4 Refitted broken slab (1), and 'heavy duty tools' (2-3); from Rekem 5 (1), Rekem 6+13 (2), and Rekem 11 (3). Note that the largest fragment of (1) was transported from Rekem 5 to Rekem 10, while the 'heavy duty tool' of (2) was 'shaped' at Rekem 6 and abandoned at Rekem 13.



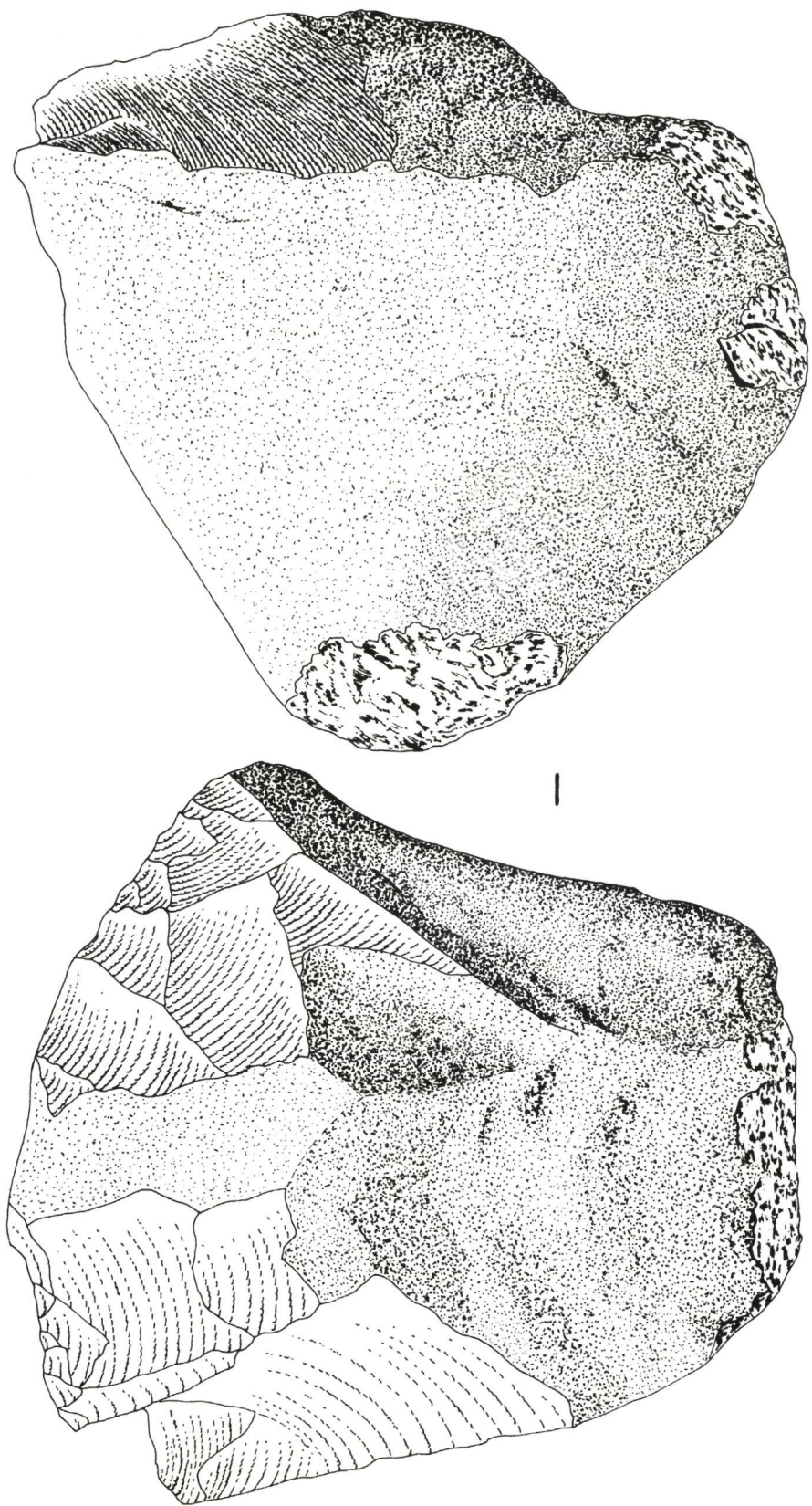
Pl. 5 Large slabs (ca. 25 cm → and 3 to 4 cm thick), broken by heat; from Rekem 6 (1), and Rekem 10 (2). The upper right fragment of (1) moved from Rekem 6 to Rekem 5. Scale: 1:2.



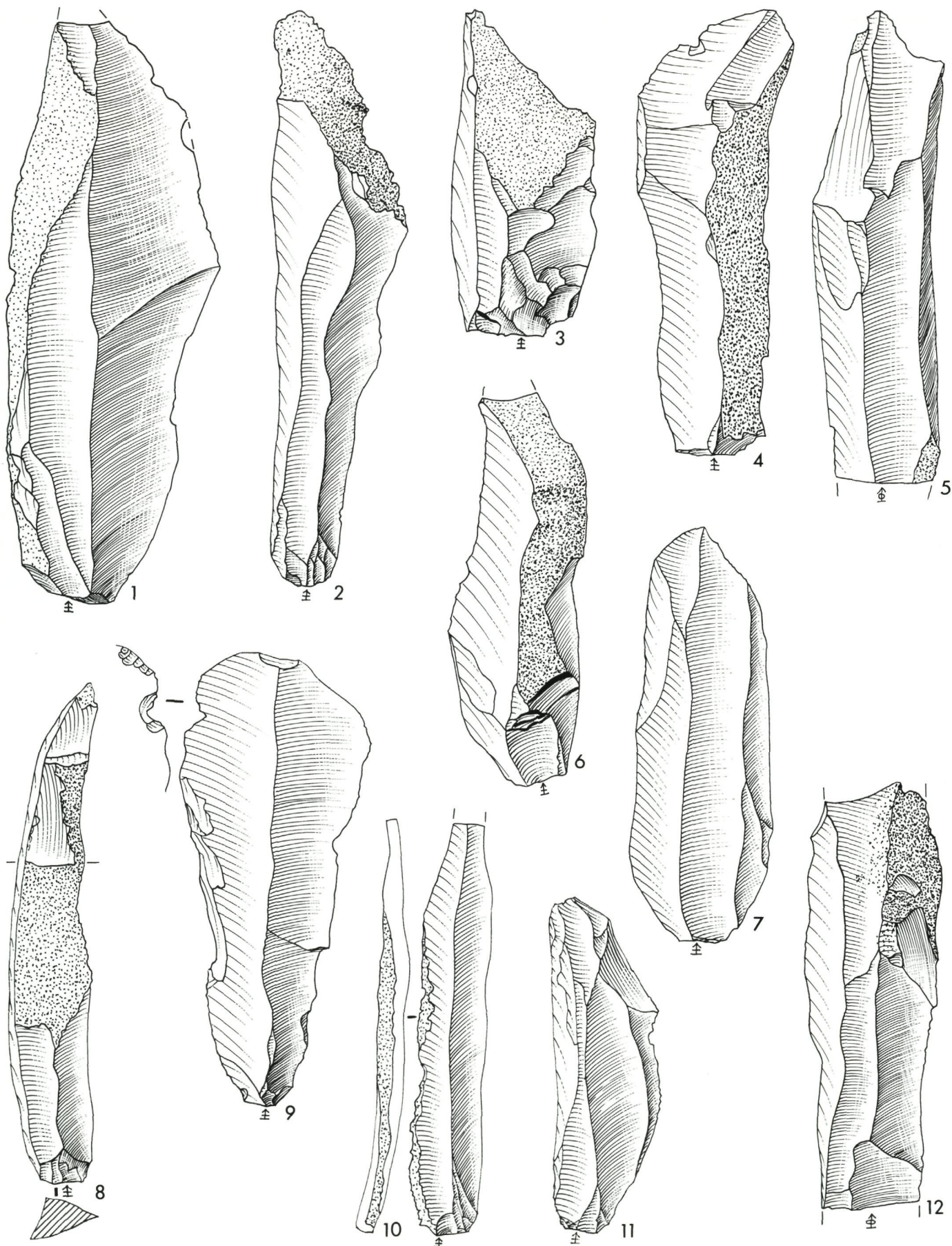
Pl. 6 Shaft polishers from the 1982 campaign, exact provenience unknown (1), and from Rekem 6 (2). Pieces of red ochre from Rekem 11 (3), Rekem 6 (4-5), and Rekem 4 (6).



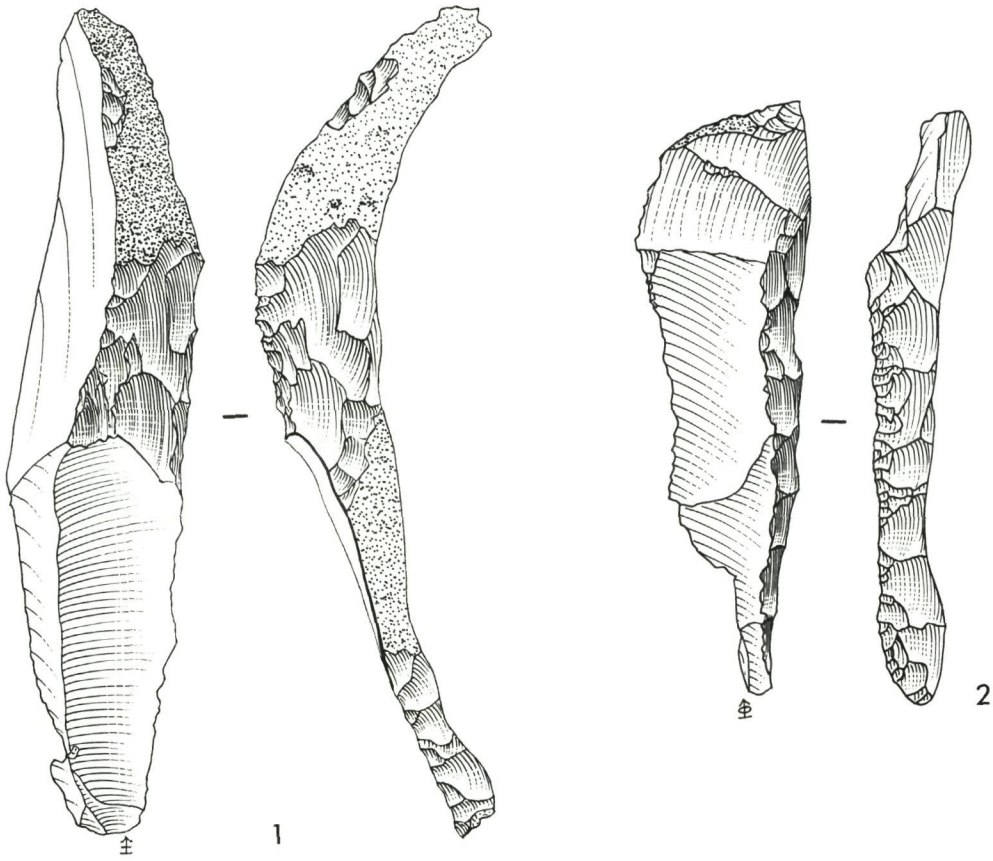
Pl. 7 *Quartzite hammerstone from Rekem 12.*



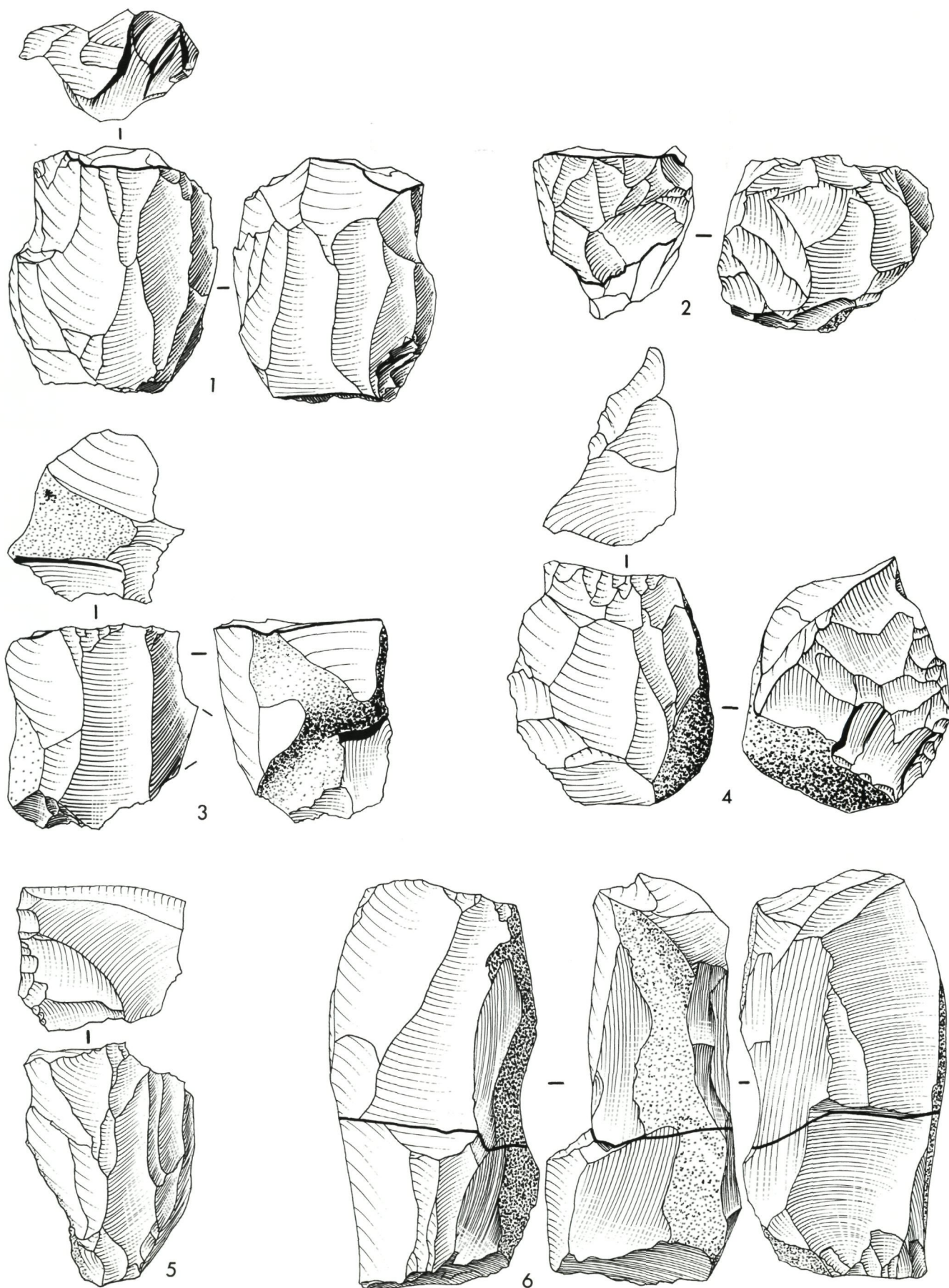
Pl. 8 Selection of blades (1-2, 4-12) and a flake (3) from Rekem 1 (1-3), Rekem 2 (4-7), Rekem 4 (8-10), Rekem 6 (12), and Rekem 11 (11).



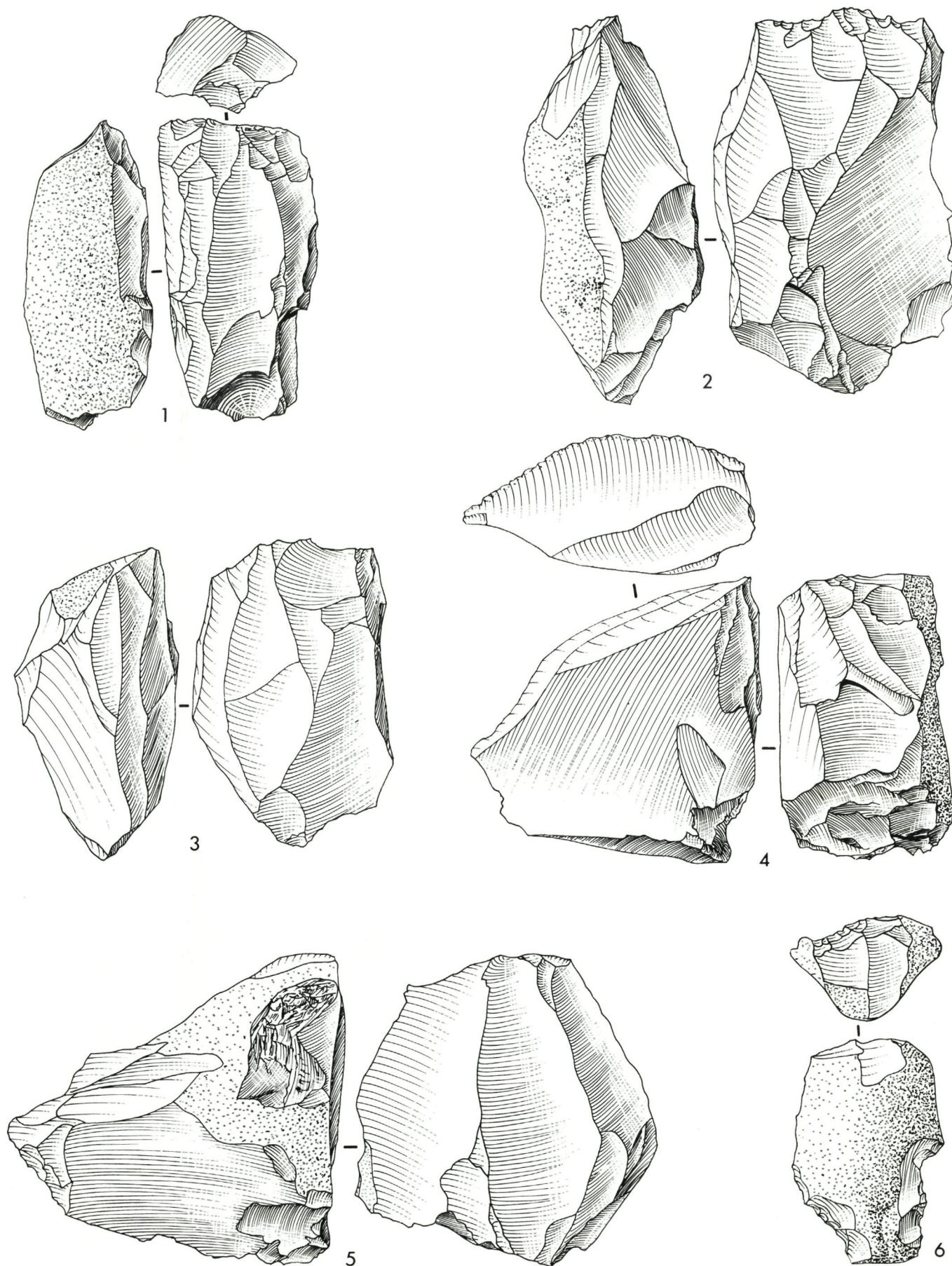
Pl. 9 Selected examples of crested blades from Rekem 12 (1) and Rekem 7 (2).



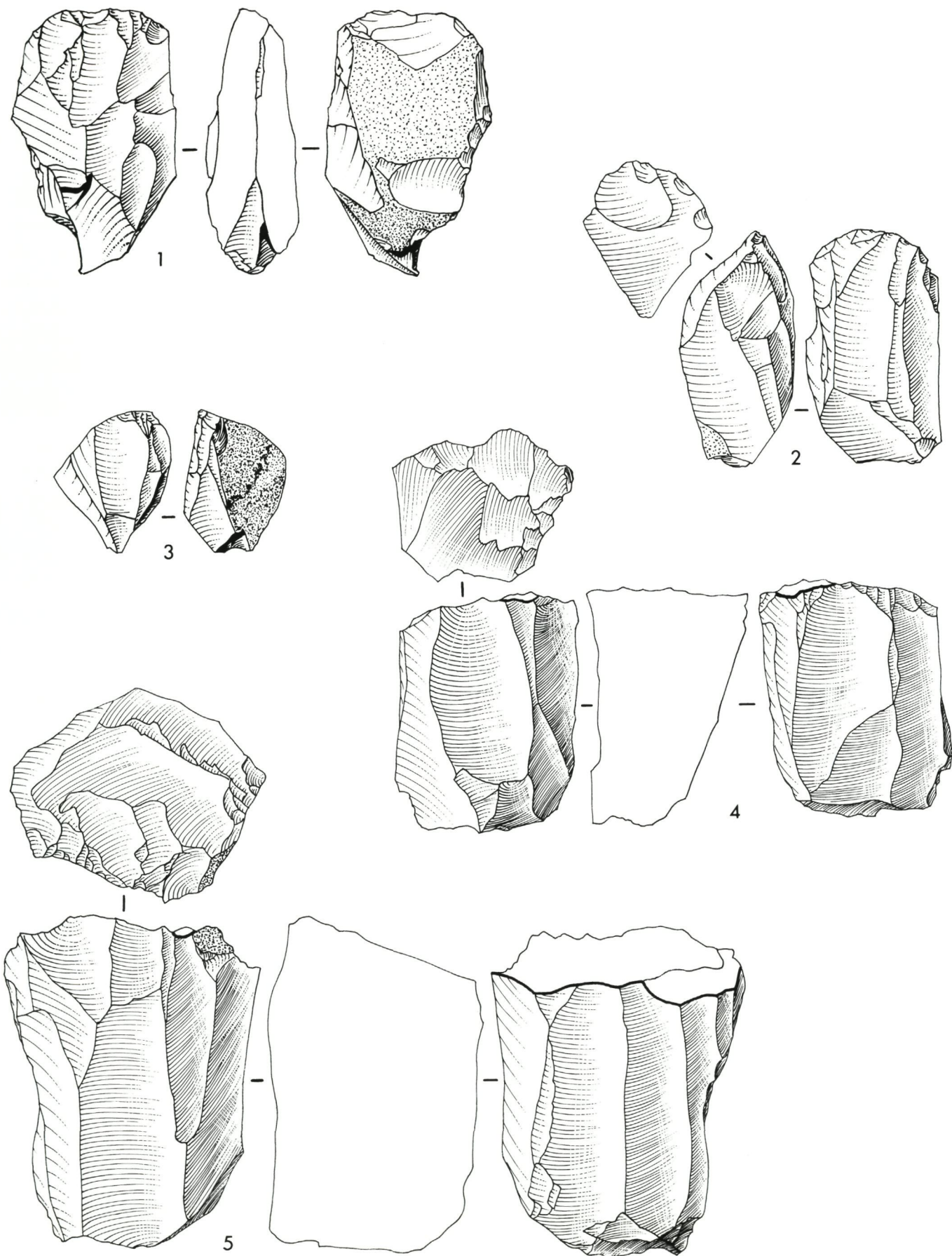
Pl. 10 Cores from Rekem 1 (1-4), and Rekem 2 (5-6). 1, 6: prismatic blade cores with two opposed platforms (note breakage of core 6 due to last removal); 2: globular double platform flake core; 3, 4: prismatic single platform cores for laminar flakes; 5: pyramidal single platform laminar flake core.



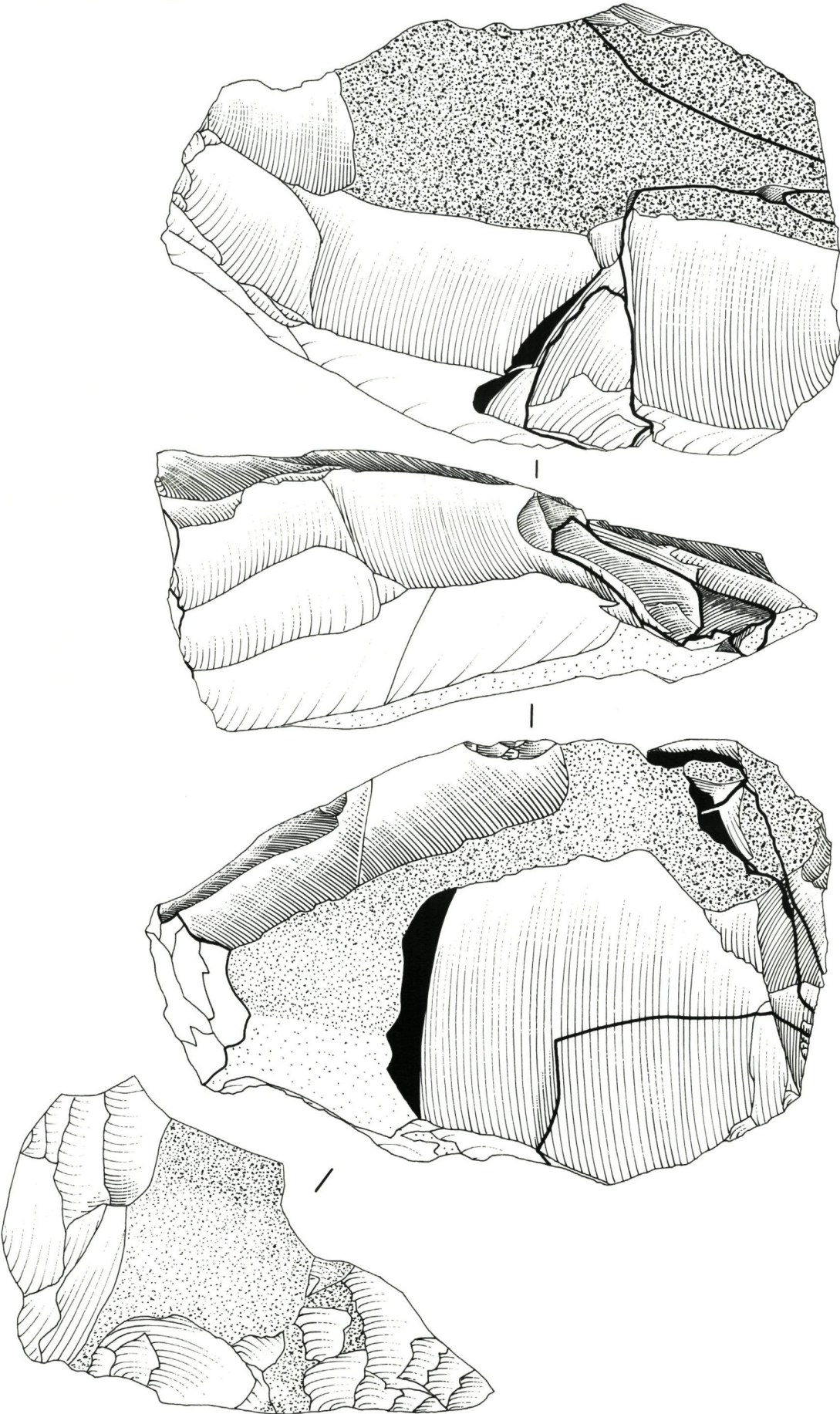
Pl. 11 Cores from Rekem 2 (1, 3, 5), and Rekem 4 (2, 4, 6). 1, 3: prismatic blade cores with two opposed platforms; 2: prismatic laminar flake core with two opposed platforms; 4: flat blade core with two opposed platforms; 5: irregular-shape laminar flake core with two opposed platforms; 6: small randomly knapped cobble.



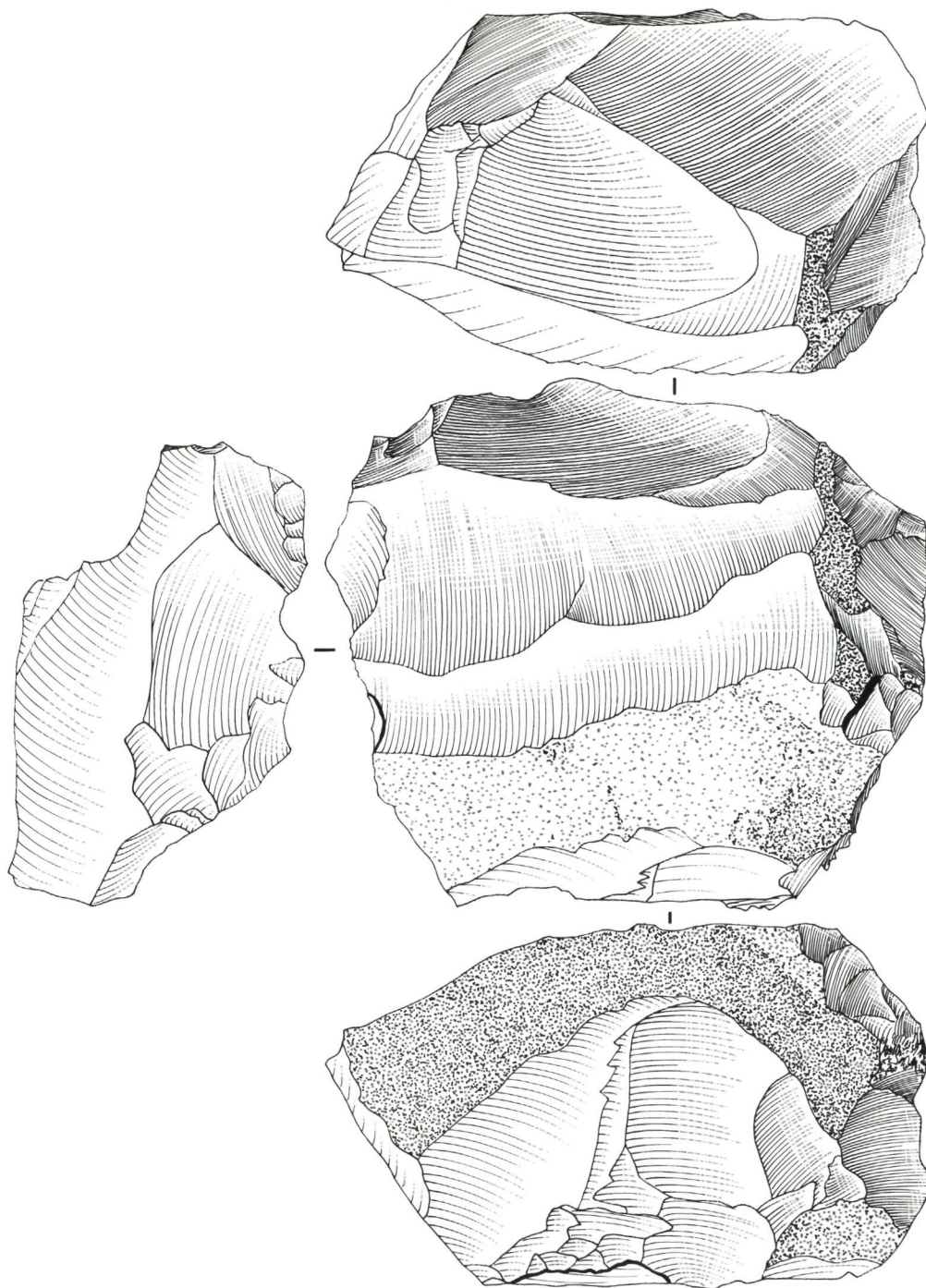
Pl. 12 Cores from Rekem 5. 1: flat single platform bladelet core; 2: prismatic single platform bladelet core; 3: small pyramidal single platform bladelet core; 4: single platform pyramidal blade core; 5: prismatic blade core with two opposed platforms.



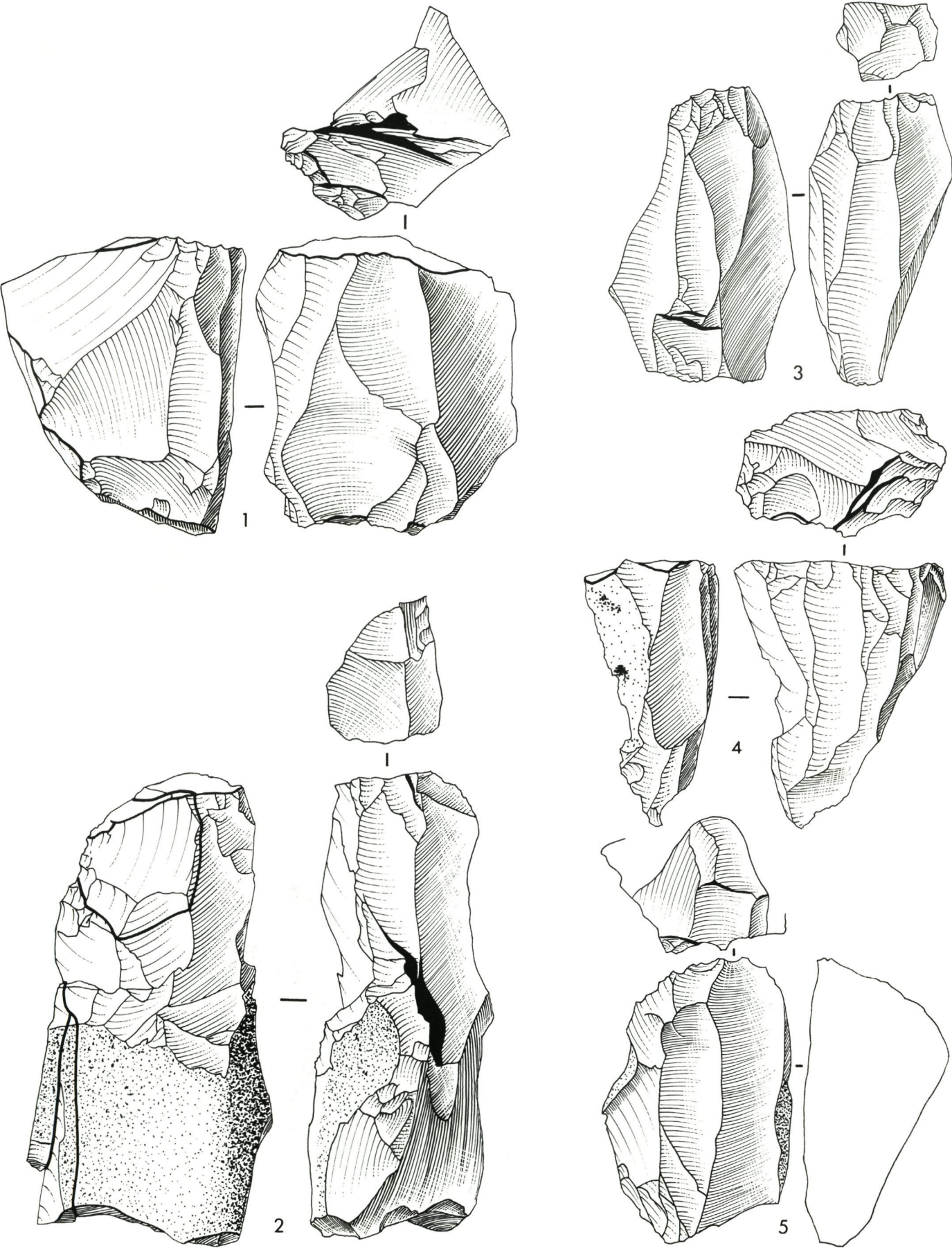
Pl. 13 *Rekem 6. Large single platform pyramidal blade core.*



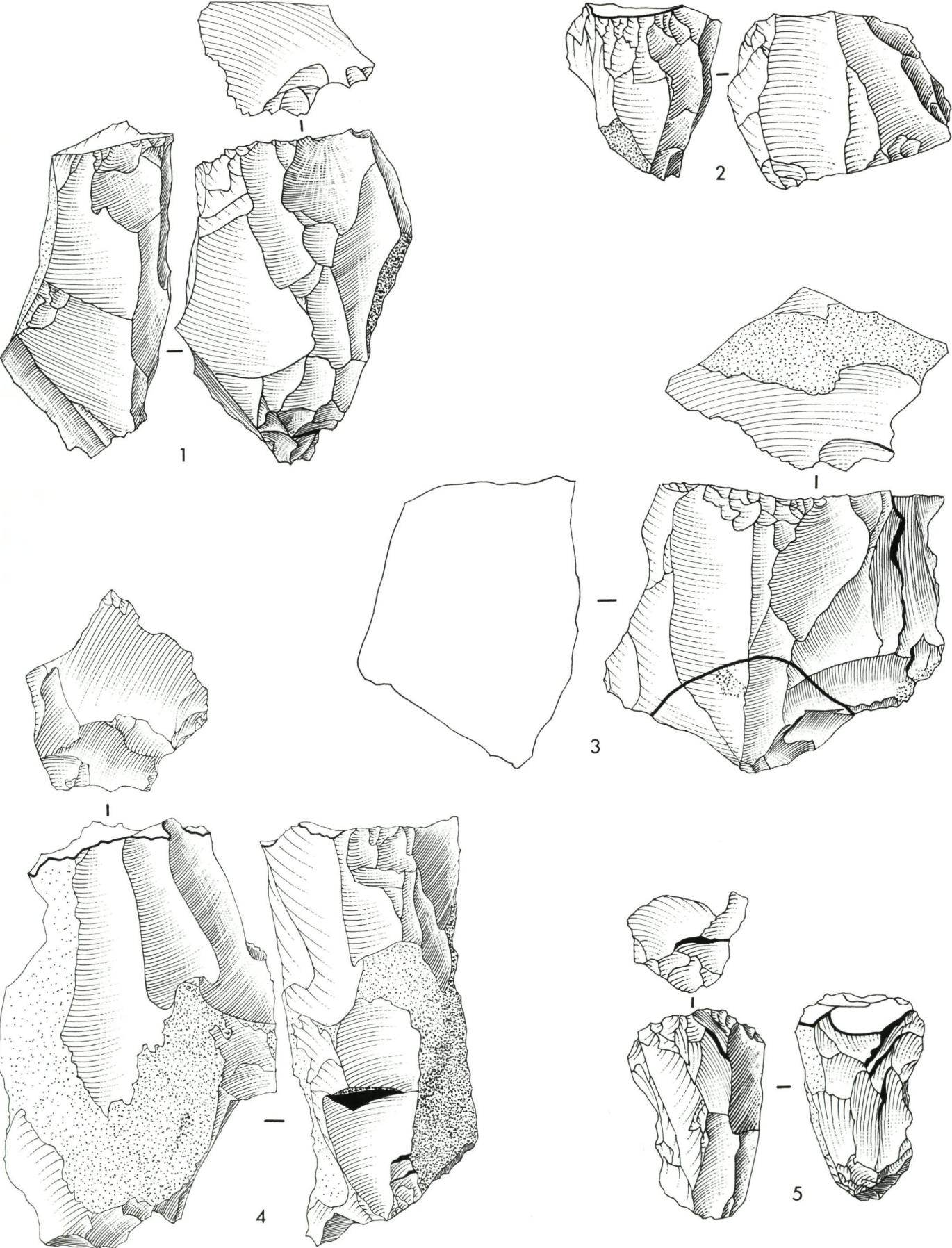
Pl. 14 *Rekem 6. Large prismatic single platform laminar flake core.*



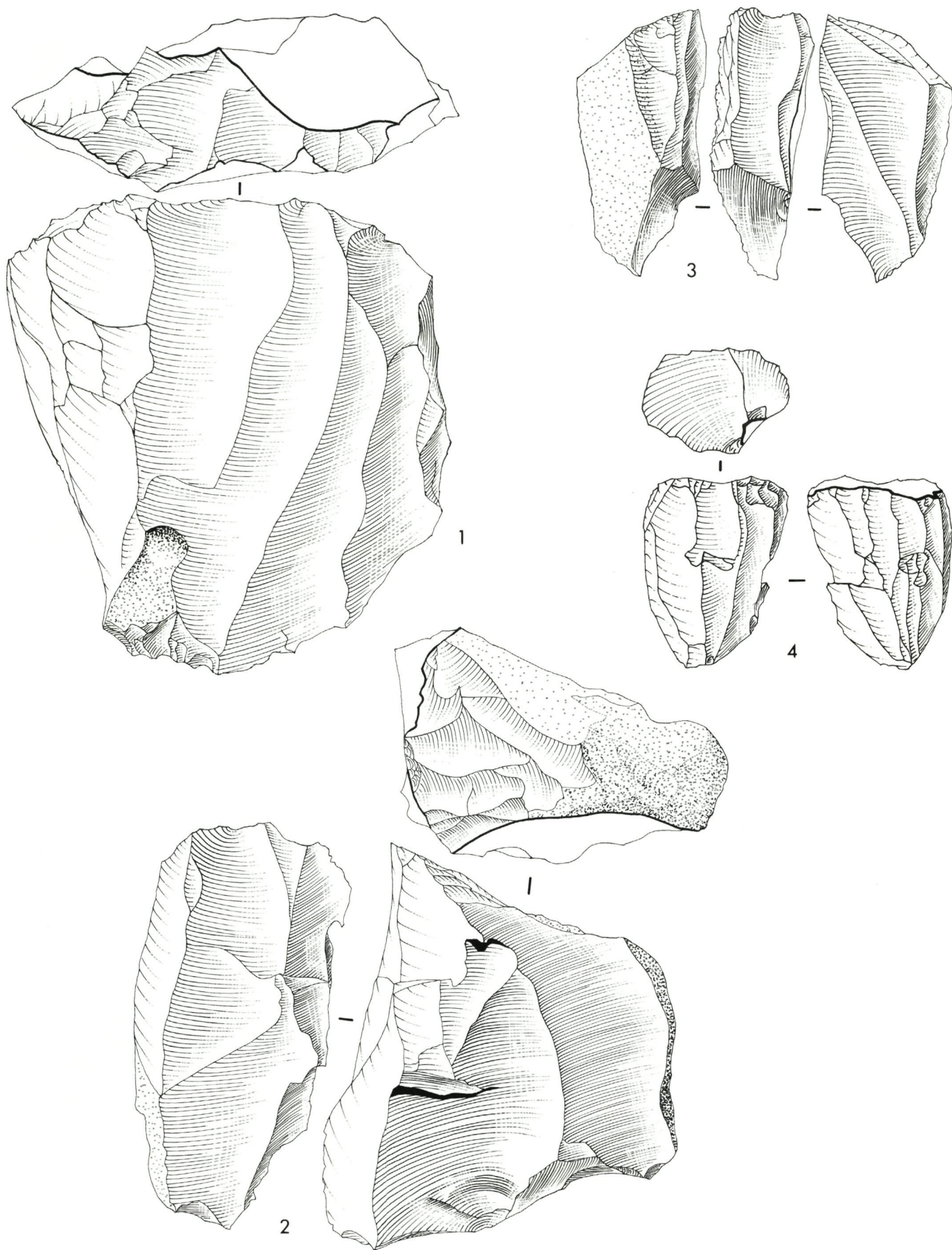
Pl. 15 Cores from Rekem 6 (1-2), and Rekem 7 (3-5). 1-3, 5: prismatic blade cores with two opposed platforms; 4: single platform pyramidal bladelet core.



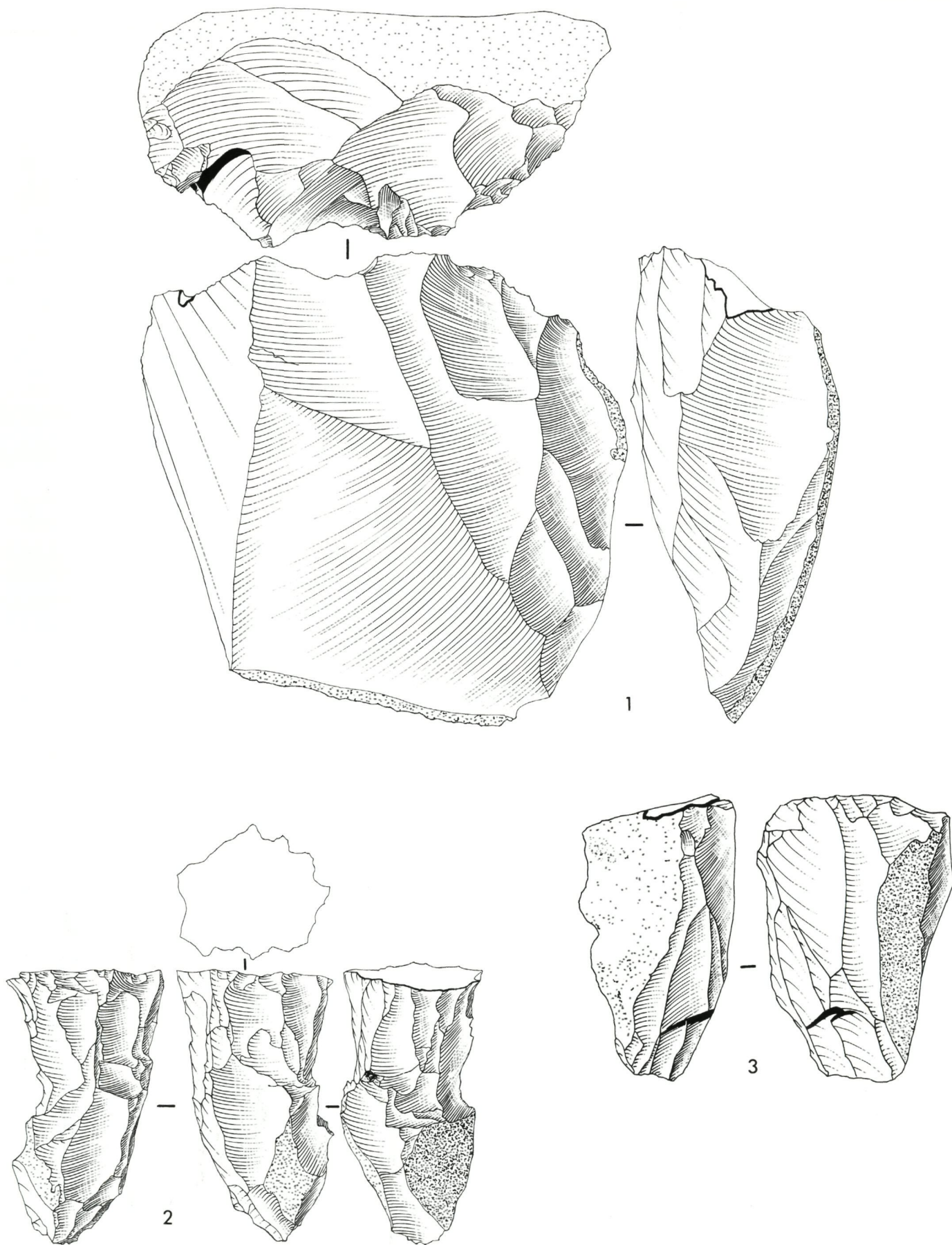
Pl. 16 Cores from Rekem 7 (1, 3), Rekem 10 (2, 5), and Rekem 11 (4). 1, 3-4: prismatic blade cores with two opposed platforms; 2: bladelet core with crossed platforms; 5: prismatic bladelet core with two opposed platforms (note the faceted platform and the crested back on this small specimen).



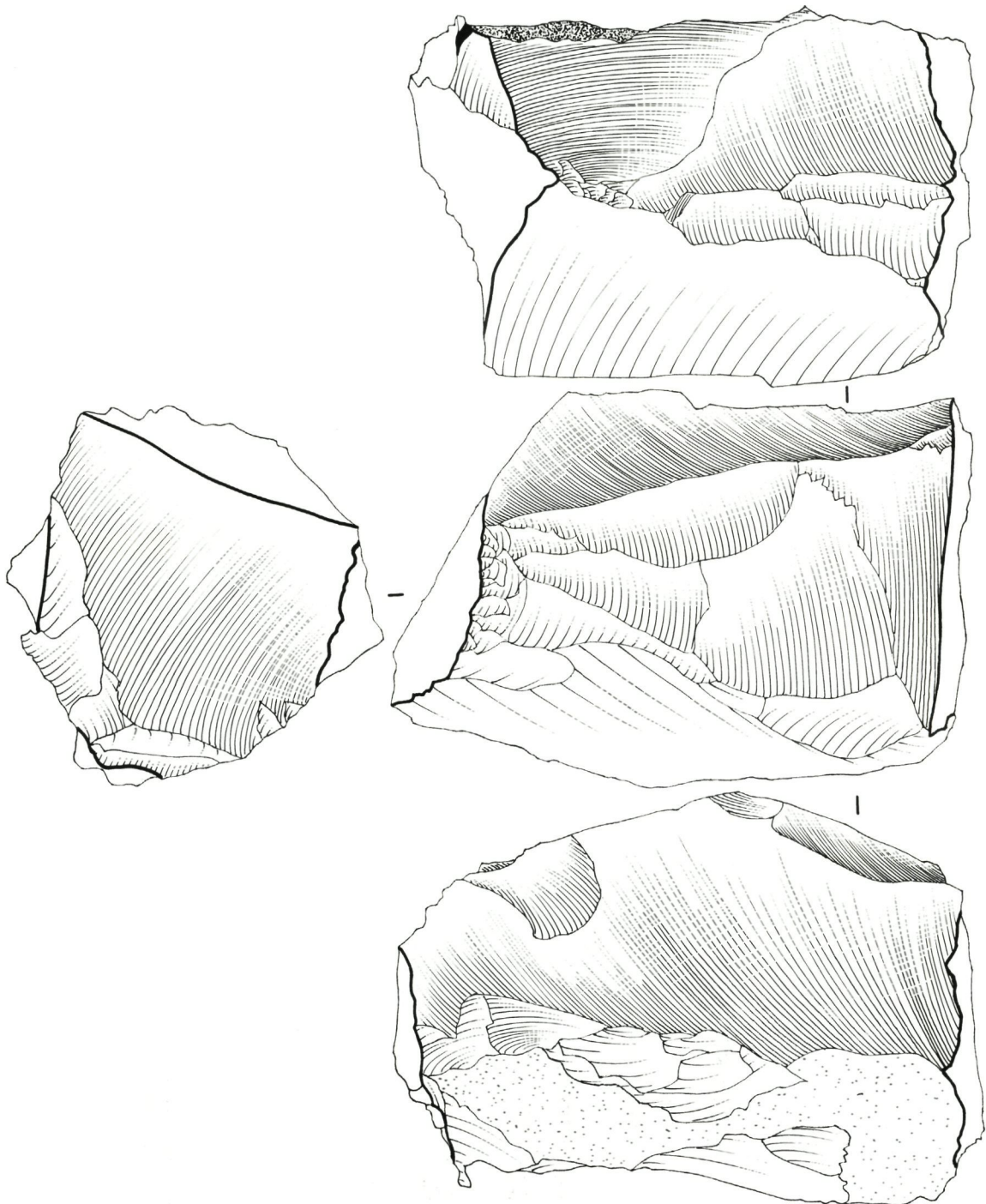
Pl. 17 Cores from Rekem 11 (1-2), and Rekem 12 (3-4). 1: flat single platform blade core; 2: prismatic opposed platform blade core; 3: single platform pyramidal blade core; 4: single platform pyramidal bladelet core.



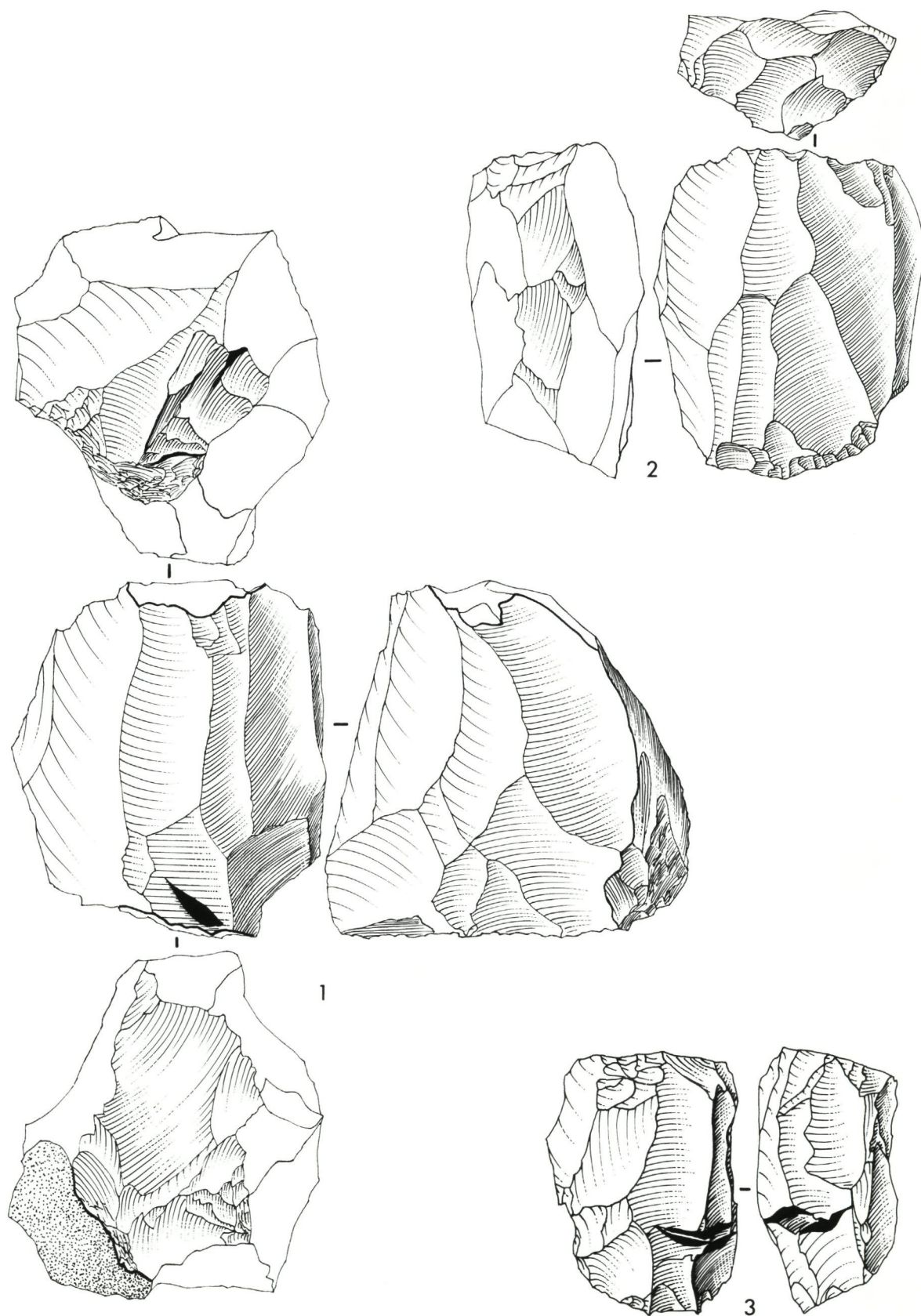
Pl. 18 Cores from Rekem 12 (1-2), and Rekem 13 (3). 1: flat single platform blade core; 2: single platform pyramidal bladelet core; 3: prismatic blade core with two opposed platforms.



Pl. 19 Rekem 14. Large prismatic blade core with two opposed platforms.



Pl. 20 Cores from Rekem 14 (1-2), and Rekem 16 (3). 1-3: prismatic blade cores with two opposed platforms.



Pl. 21 Co-set 01c01.

*Upper view of laminar series
struck from Platform A*

Platform A

Part C

Part C

Table 1

View of Flank b

Part A

Part B

0 3 cm

Pl. 22 Co-sets 01c02 & 01c03.

Platform A

01c02

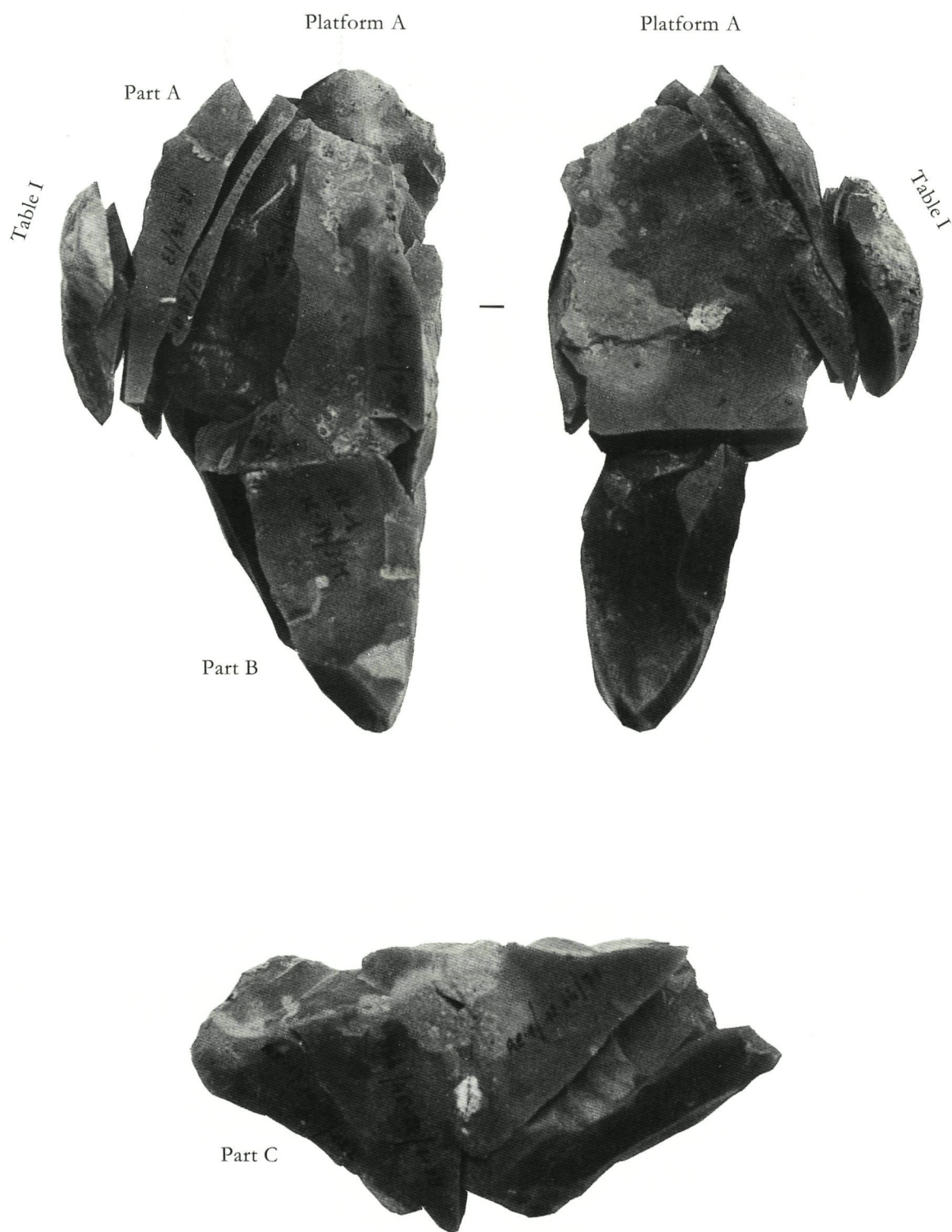


Platform A

01c03



Pl. 23 Co-set 01c04.



Platform A



View of Flank b

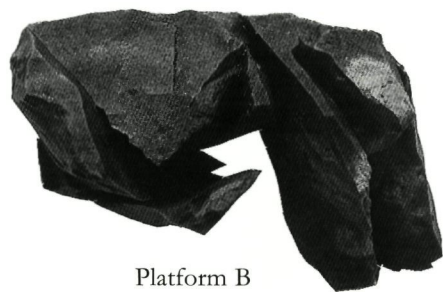


View of Table I



View of Flank a

01c06



Platform B



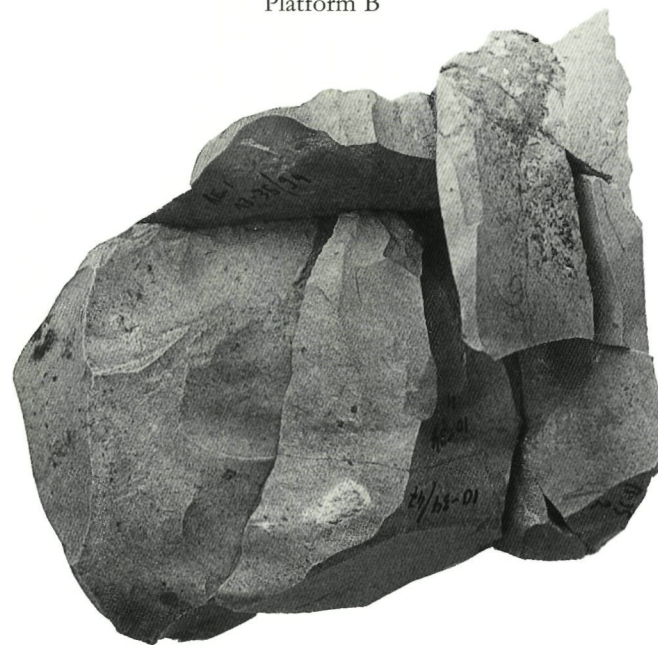
Flank a

Platform A

View of Table I

01c07

Platform B



Platform A

View of flank b

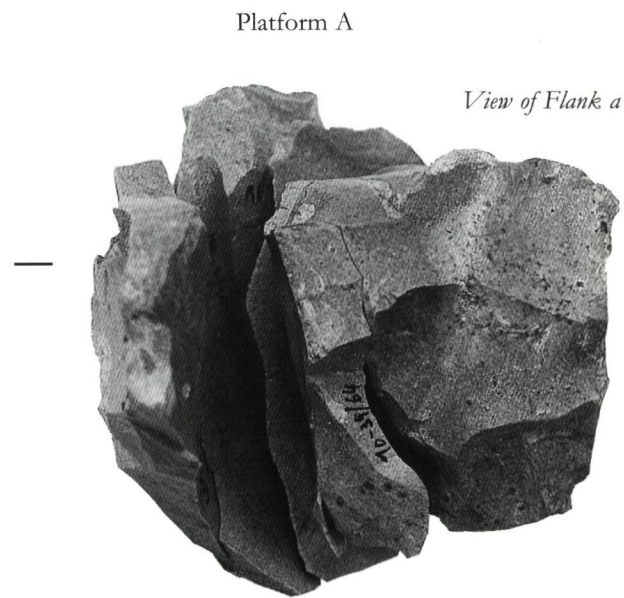
Pl. 25 Co-sets 01c06 & 01c07.



| Platform A



Platform B



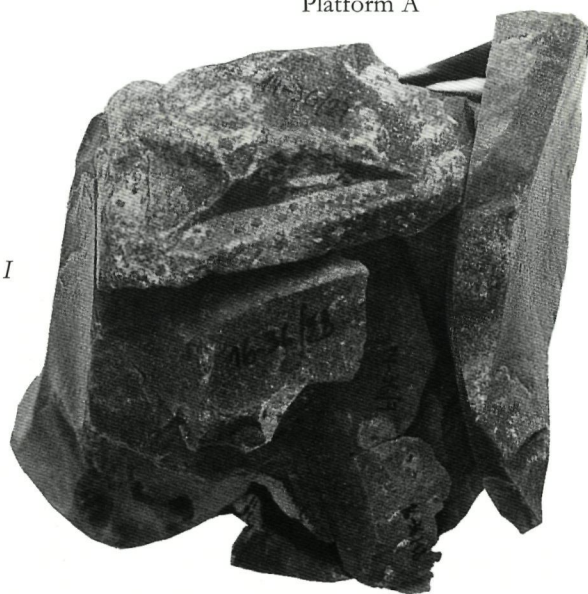
Platform B

View of Platform A



Platform A

View of Table I



Platform B

Flank a

View of Flank a*Front view of Table I*

Platform A

*View of Flank b*

Pl. 28 Co-set 01c11.

*Upper view of series struck
from Platform A*

01c12



Platform A



01c12

Platform A



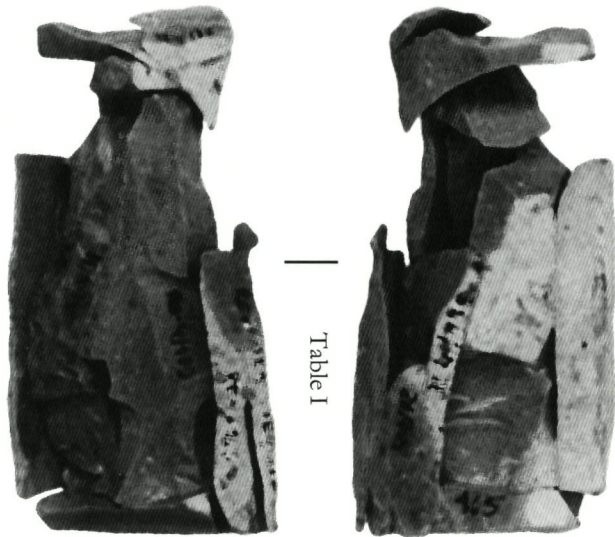
Platform B



Pl. 29 Co-set 01c12 & set 01s42.

04c02

Platform A



Platform B

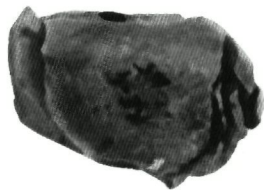


Table II

Table I

04c01

Platform A



Pl. 31 Co-sets 05c01 & 05c02.

Upper view of Platform A



05c01

Platform A

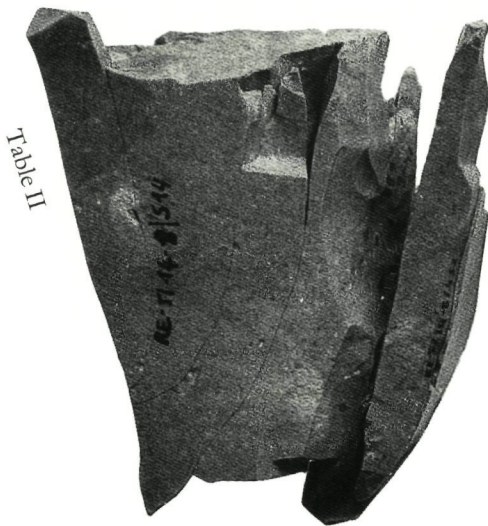


Table II

View of Flank b



Table I

View of Flank a

Platform A

05c02

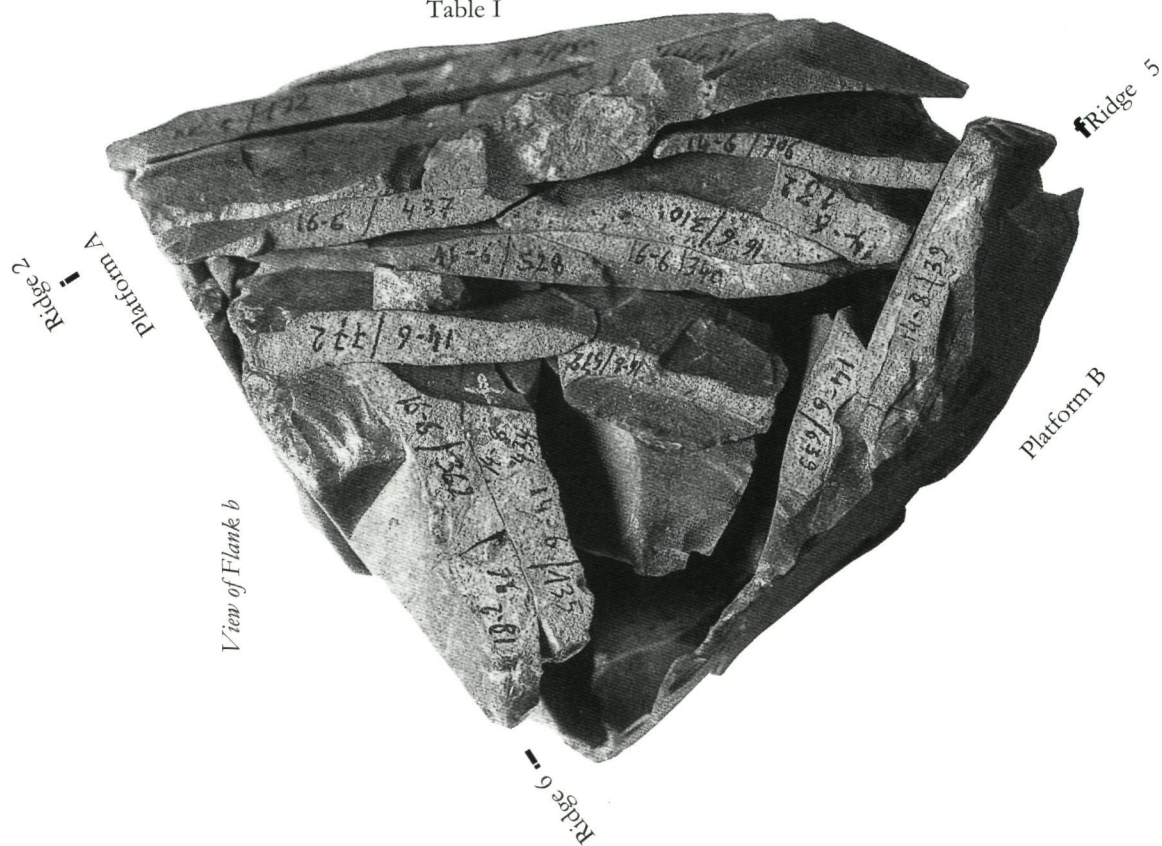


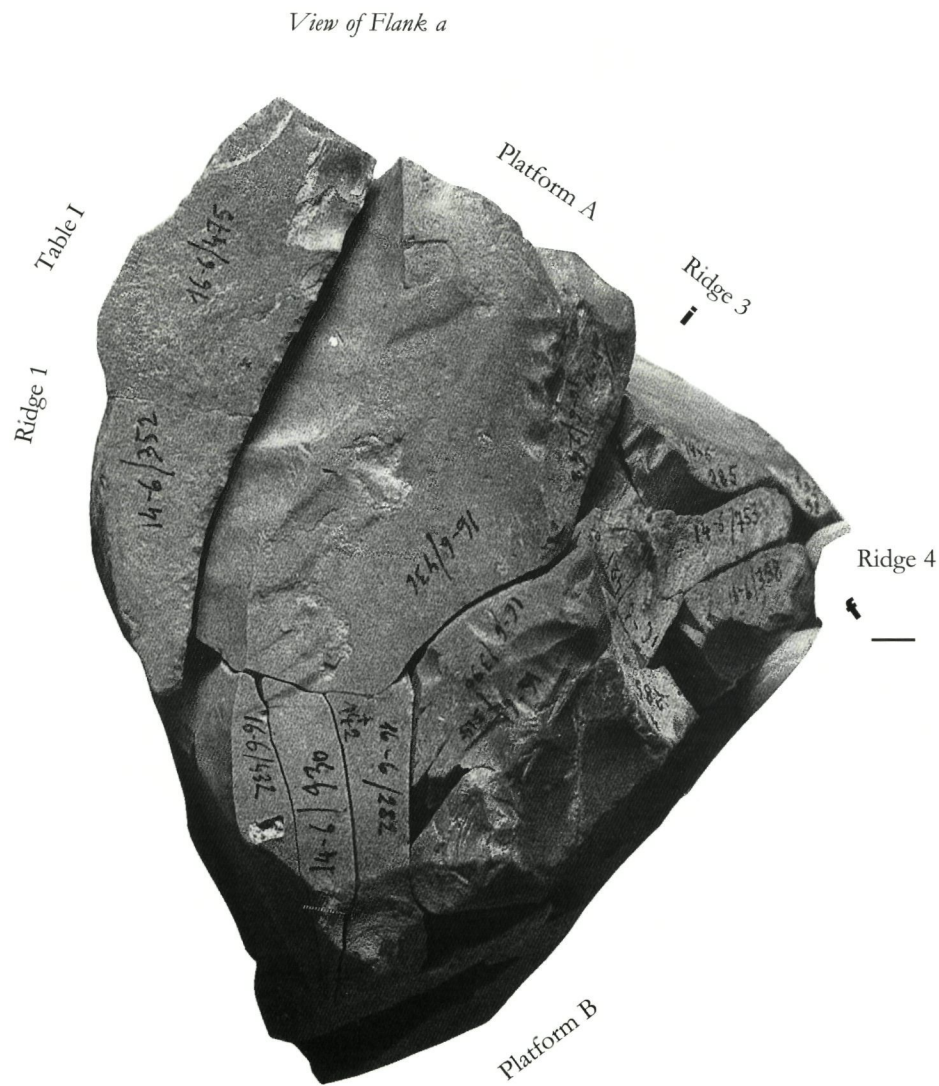
Platform B

Front view of Table I



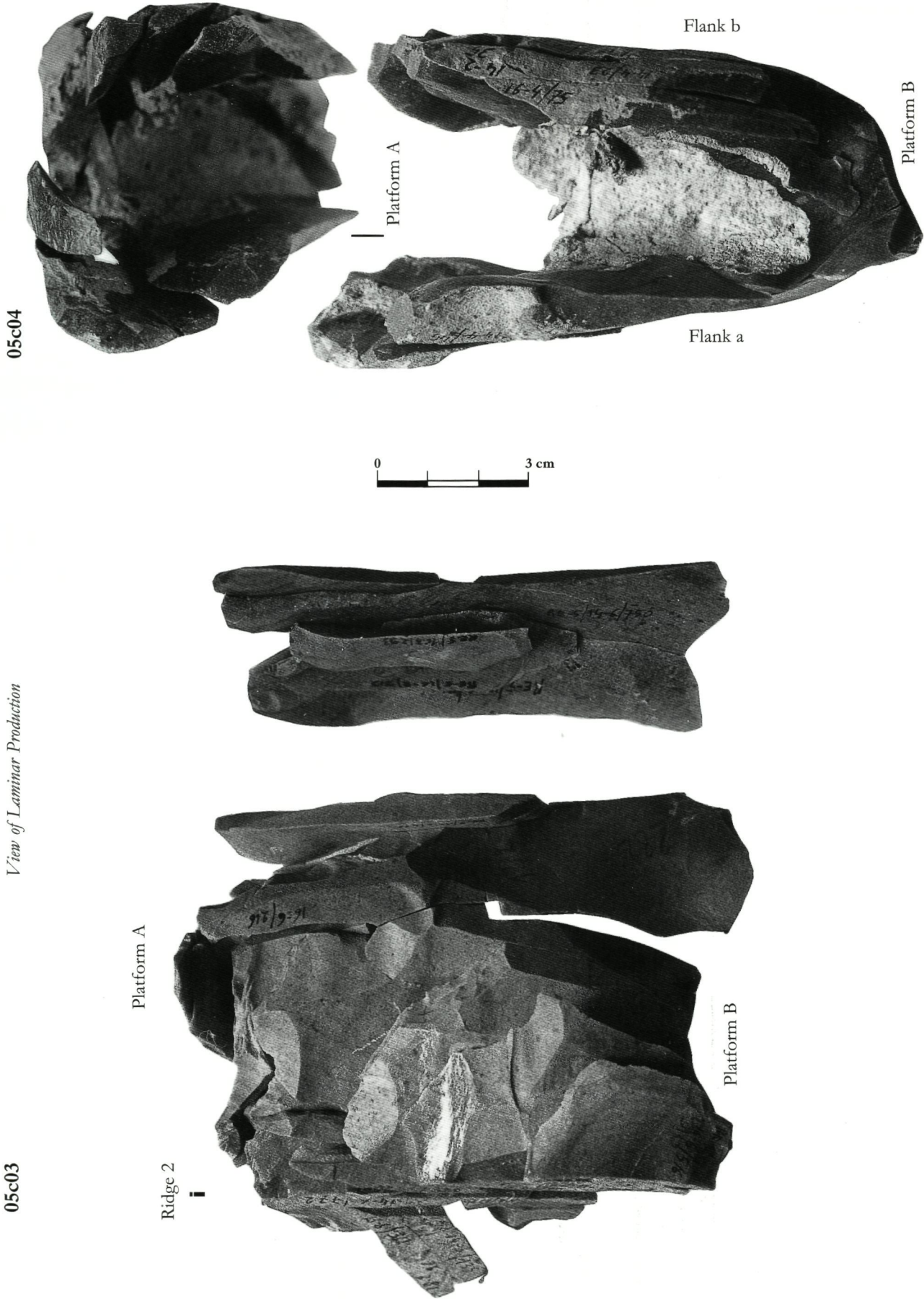
Table I





Pl. 33 Co-set 05d03 (core back & flank a).

Pl. 34 Co-sets 05c03 (laminar production) & 05c04.



Platform A

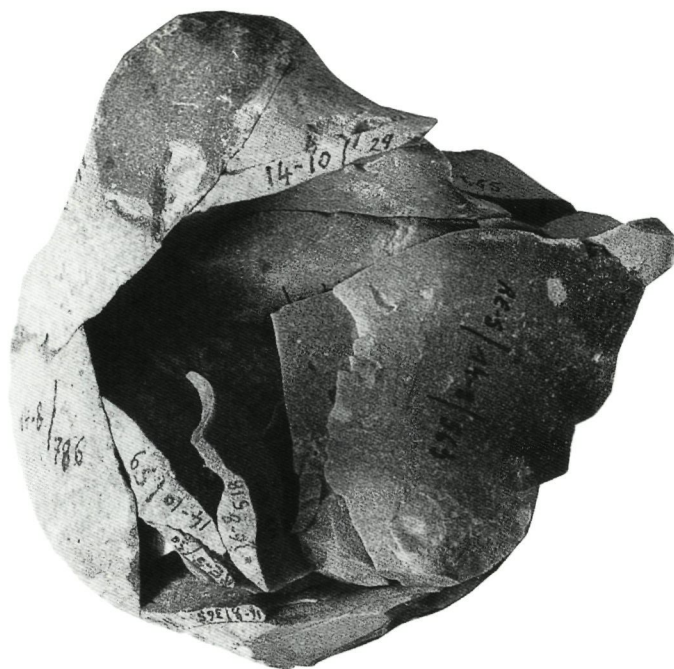
View of core back

View of Flank a

View of Flank b



Pl. 35 Co-sei 0505.



Front view of Table I



Platform A

Platform B

Complete refit

Part C

Part B

*View from
core back*

View on Platform B

*Upper view of
Platform A*

Part A



Platform A

Part B

Table I

Platform B

Platform A

Part C

Platform A

Part A

Platform B

View of Table I



View on Platform A

Platform A



Table I

Table II



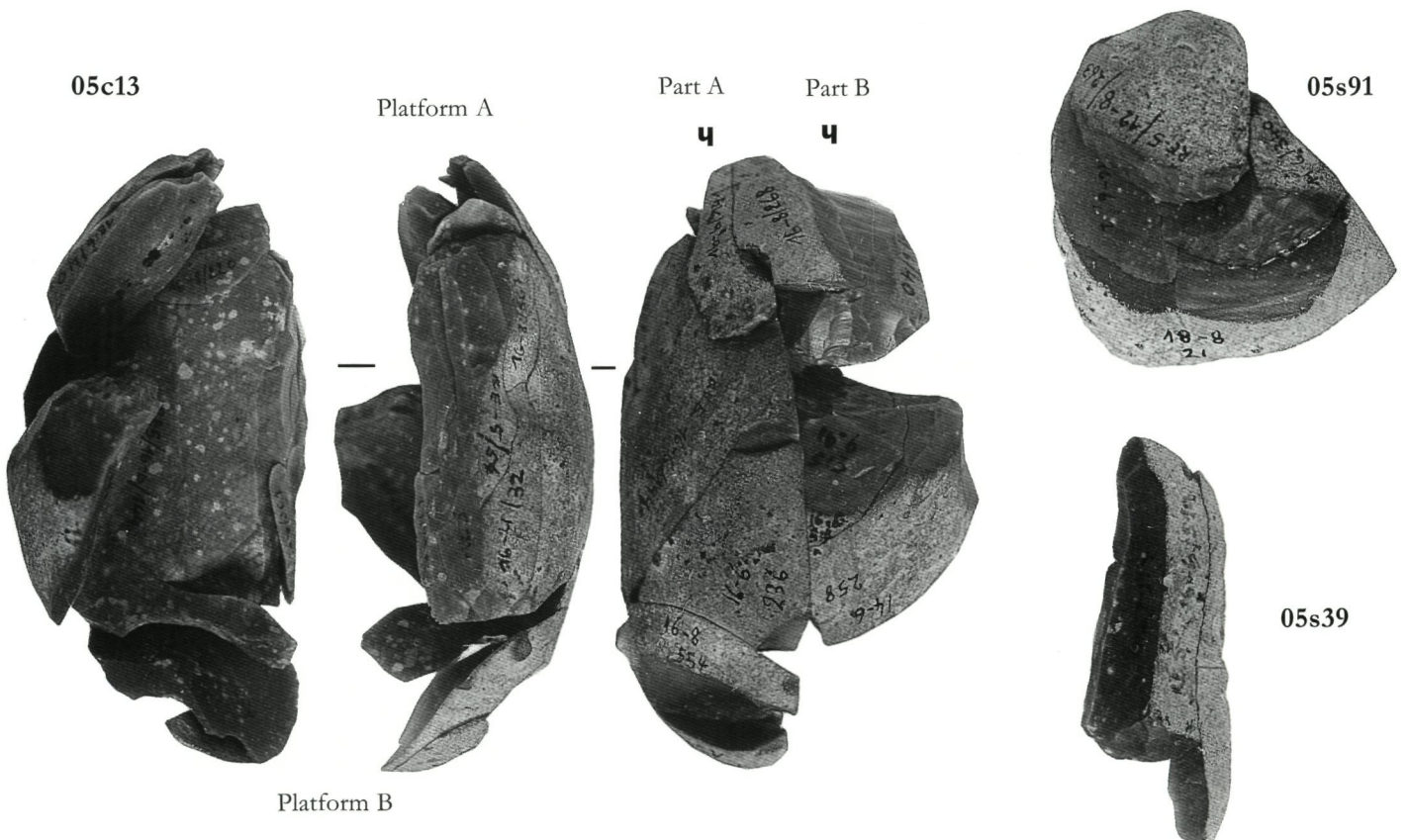
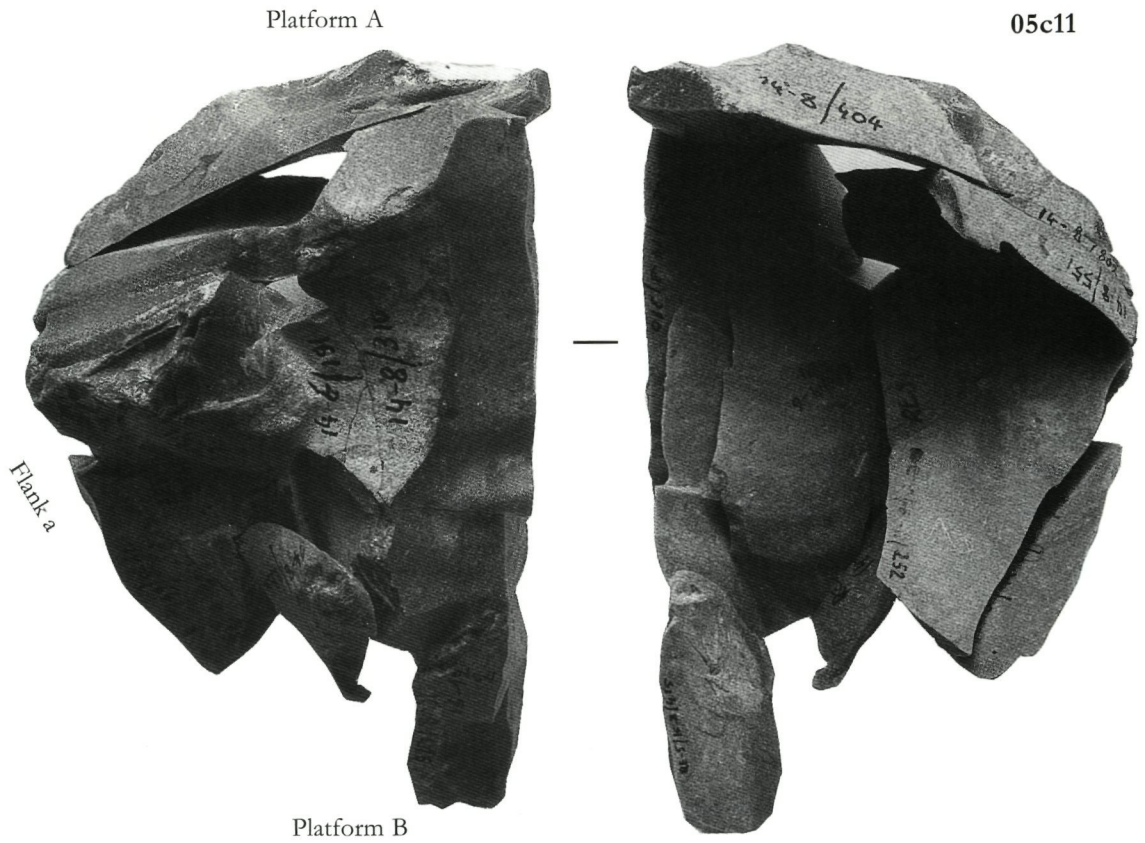
Platform B



View on Platform B



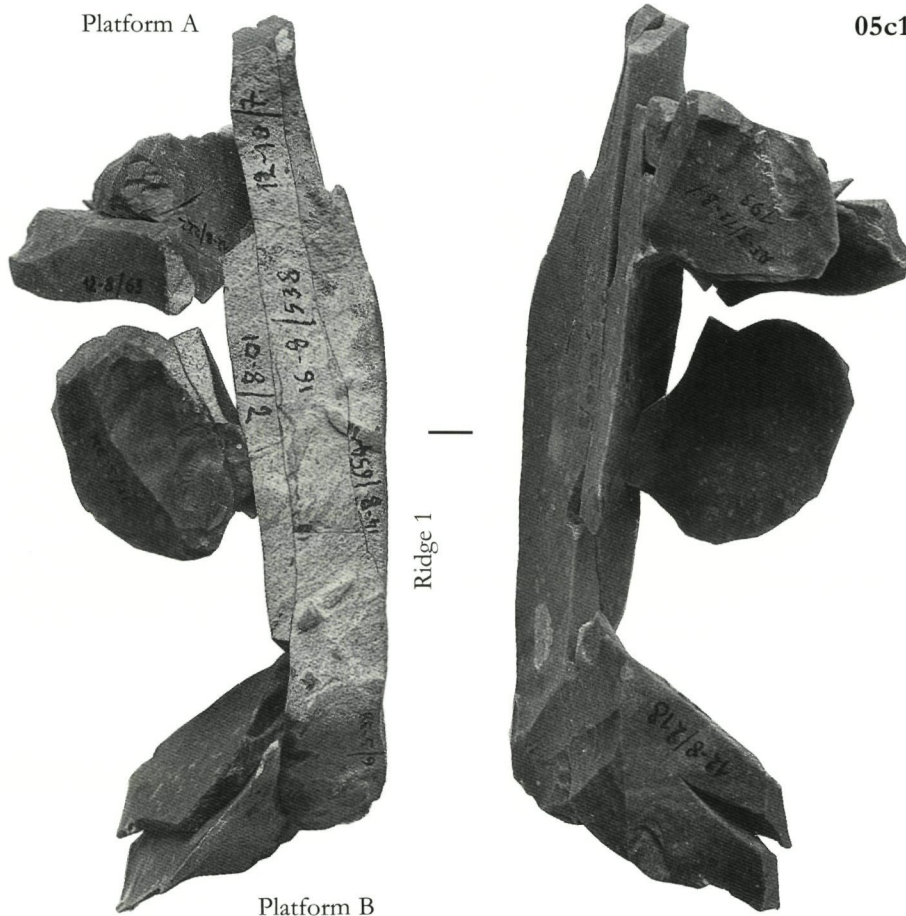
Pl. 40 Co-sets 05c11 & 05c13; sets 05s39 & 05s91.



Pl. 41 *Co-sets 05c14 & 05c15.*

Platform A

05c14

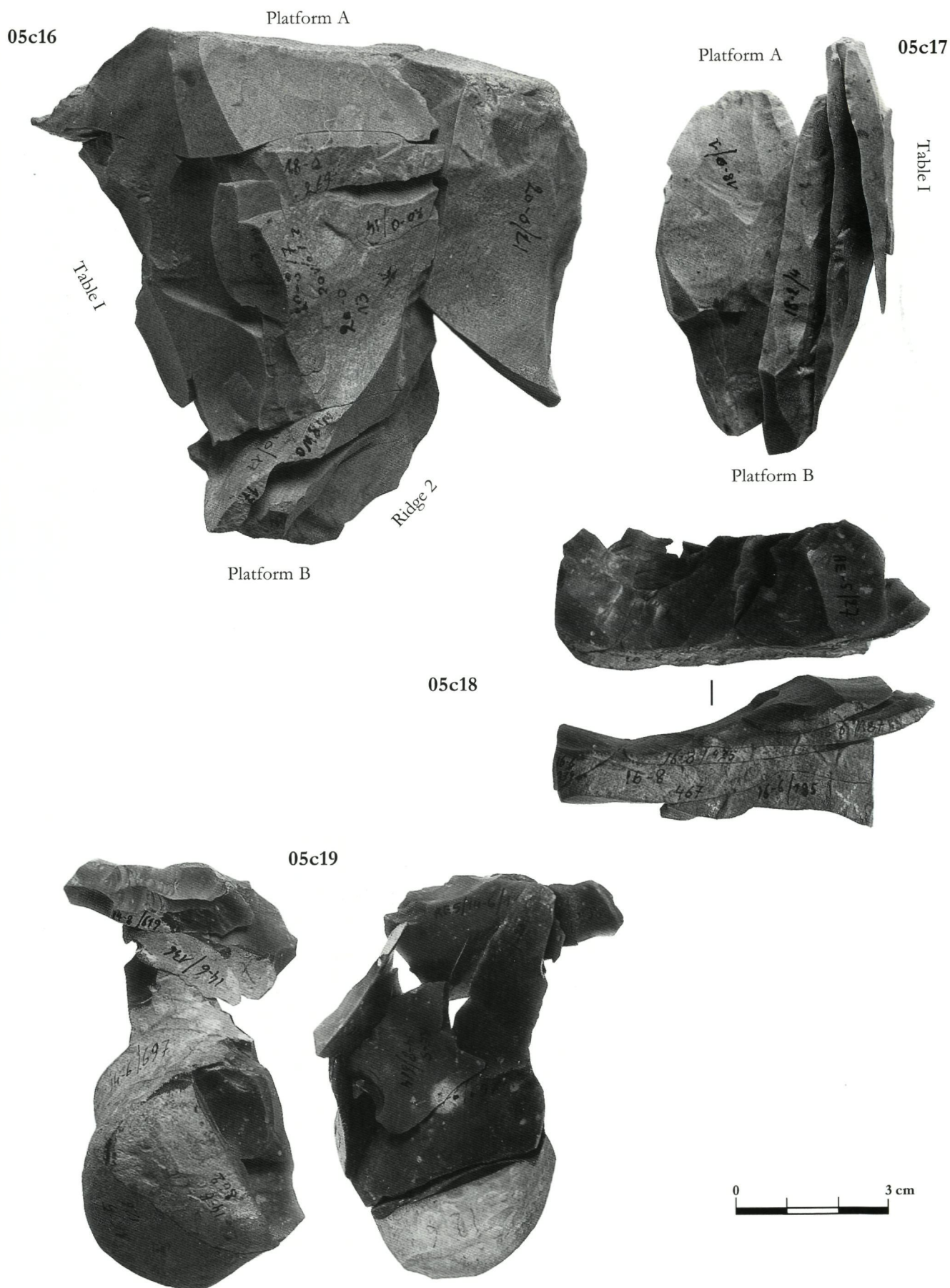


Platform B

05c15



Pl. 42 Co-sets 05c16, 05c17, 05c18 & 05c19.



Platform B



Table I



Platform A

Table I



Platform B

Platform A

Pl.44 Co-sets 05c21 & 05c22.

05c21



05c22

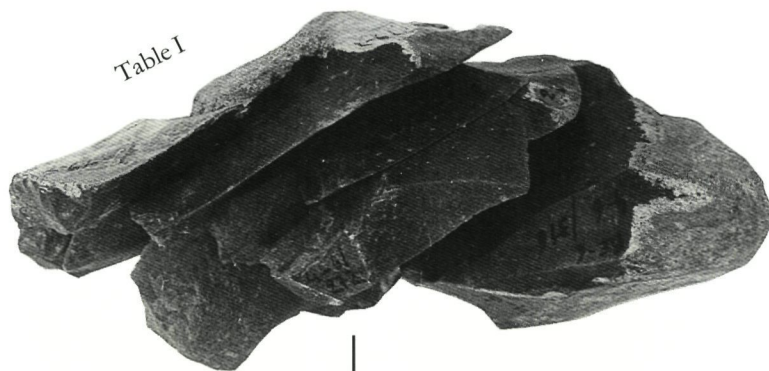
Platform A



Pl. 45 Co-sets 06c01 & 06c02.

06c02

Table 1



Platform A



06c01

Platform A

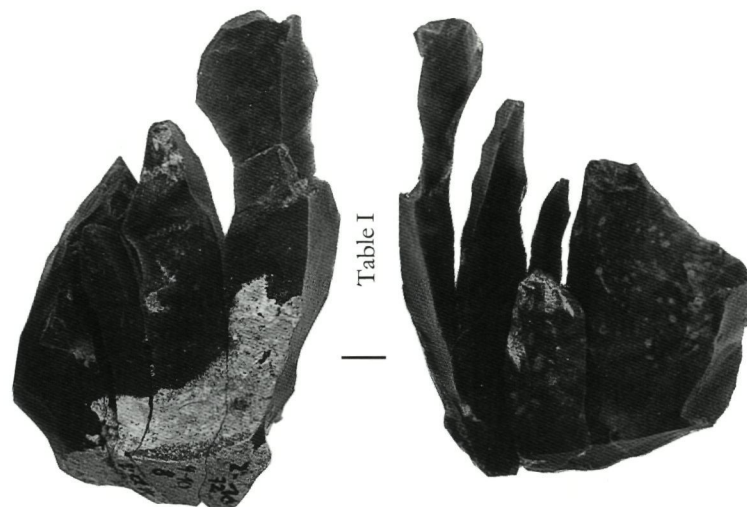


Platform B

Pl. 46 Co-sets 06c04 & 06c06.

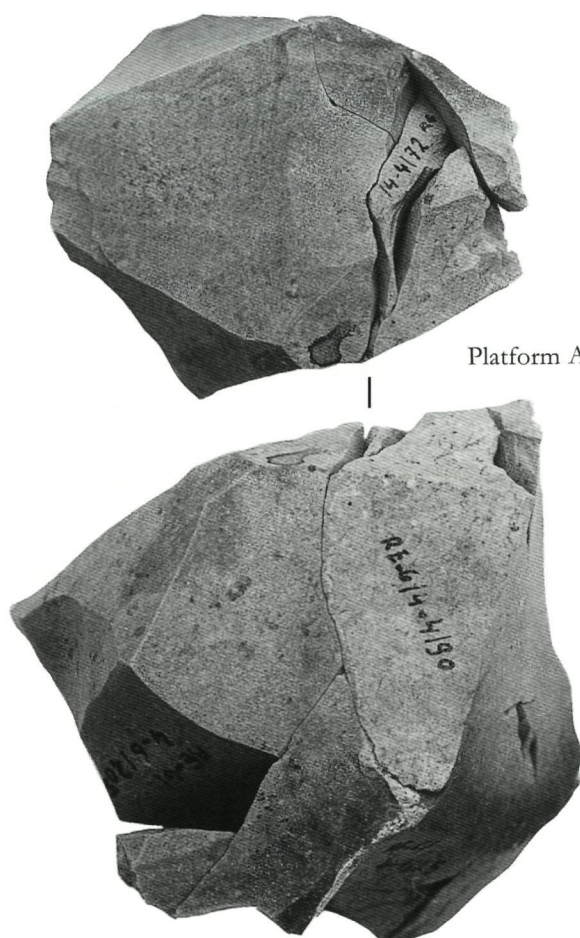
06c04

Platform A



06c06

Platform A



Pl. 47 Co-sets 07c02 & 07c03.

07c02



Platform A

07c03

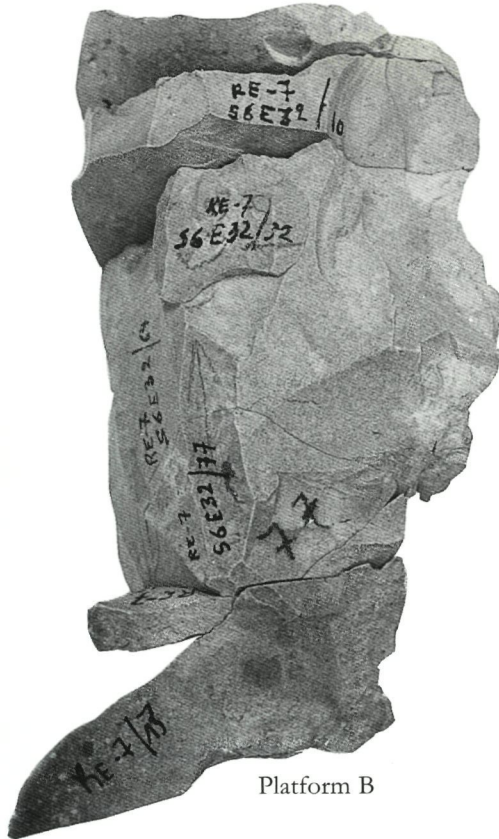


Table I

Pl. 48 Co-sets 07c05, 07c07, 07c08 & 07c09.

07c05

Platform A



Platform B

07c08

Platform B



Platform A

07c07

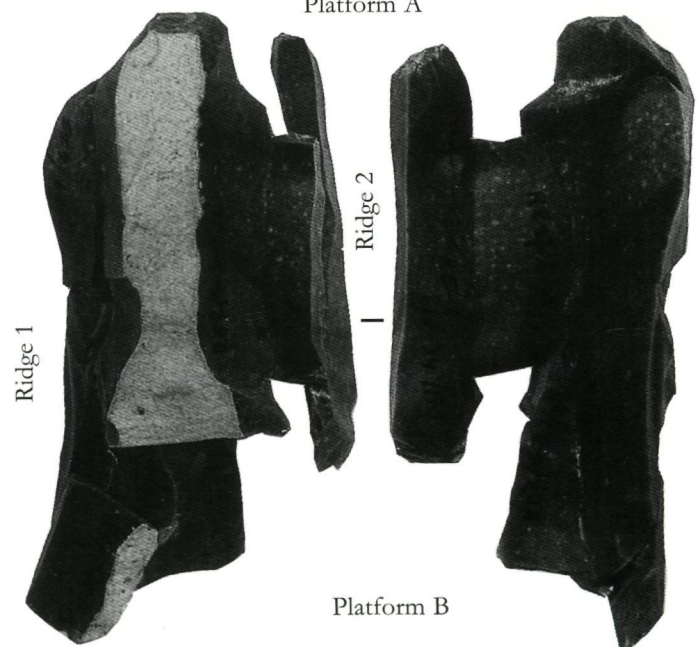
Platform B



Platform A

07c09

Platform A



Platform B

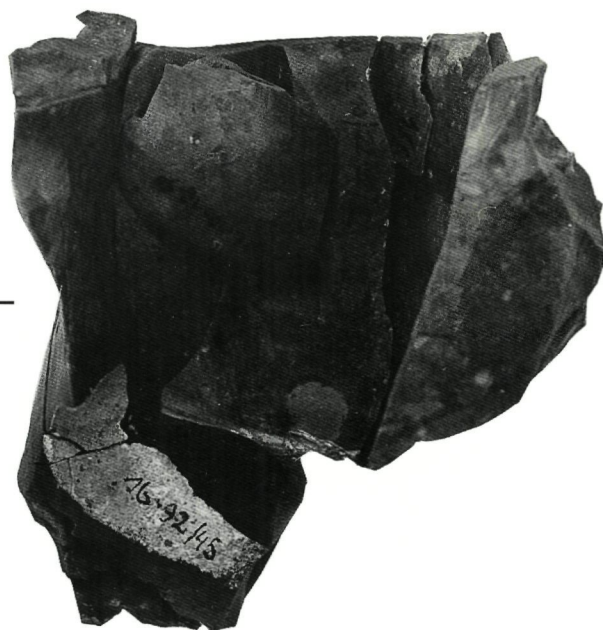


*Upper view
of Platform B*

Platform B



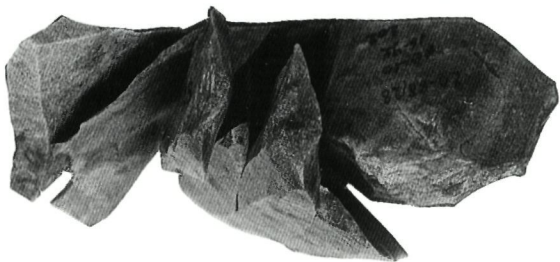
Front view of Table I



Platform A

*View of back
(without core)*

View on Platform B



Platform B



Flank a

Platform A

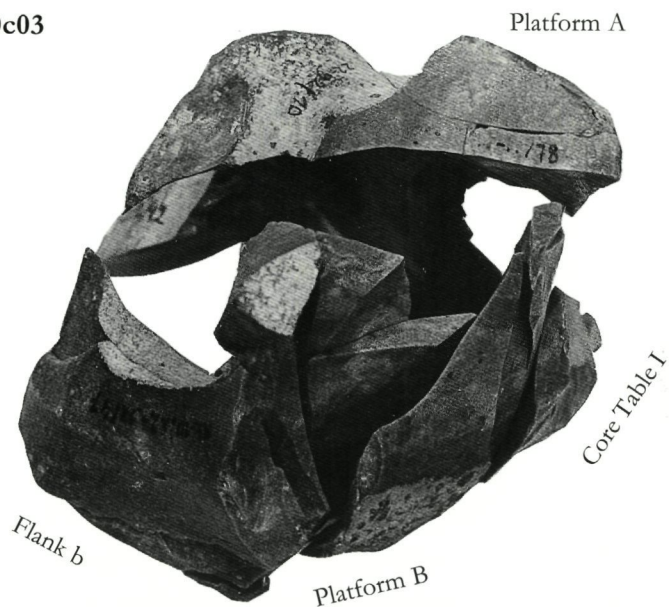
View of Table I



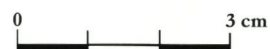
View of Flank a

Pl. 51 Co-sets 10c03, 10c05 & 10c06.

10c03



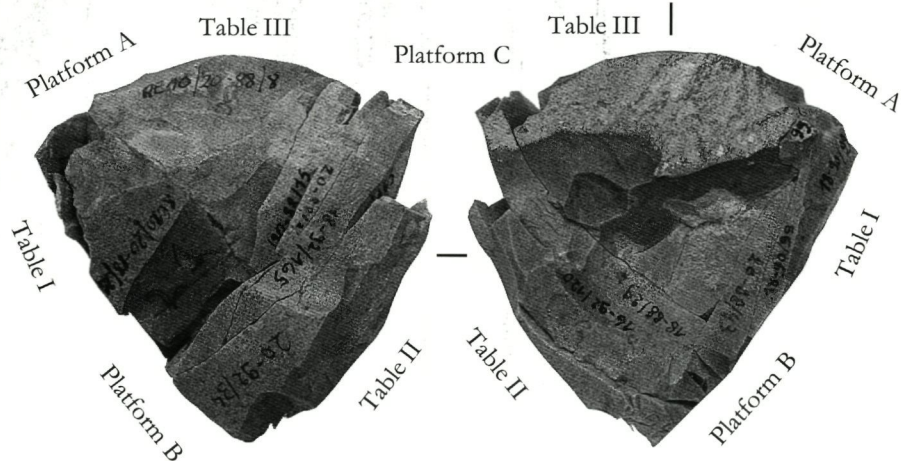
10c05



View on Table III



10c06

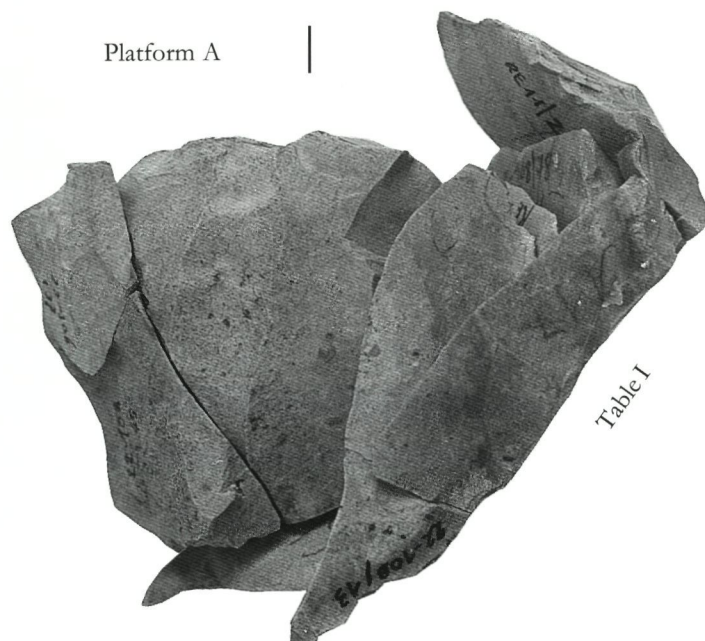


Pl. 52 Co-sets 11c01, 11c02 & 11c03.

11c01



Platform A



Platform B

11c03



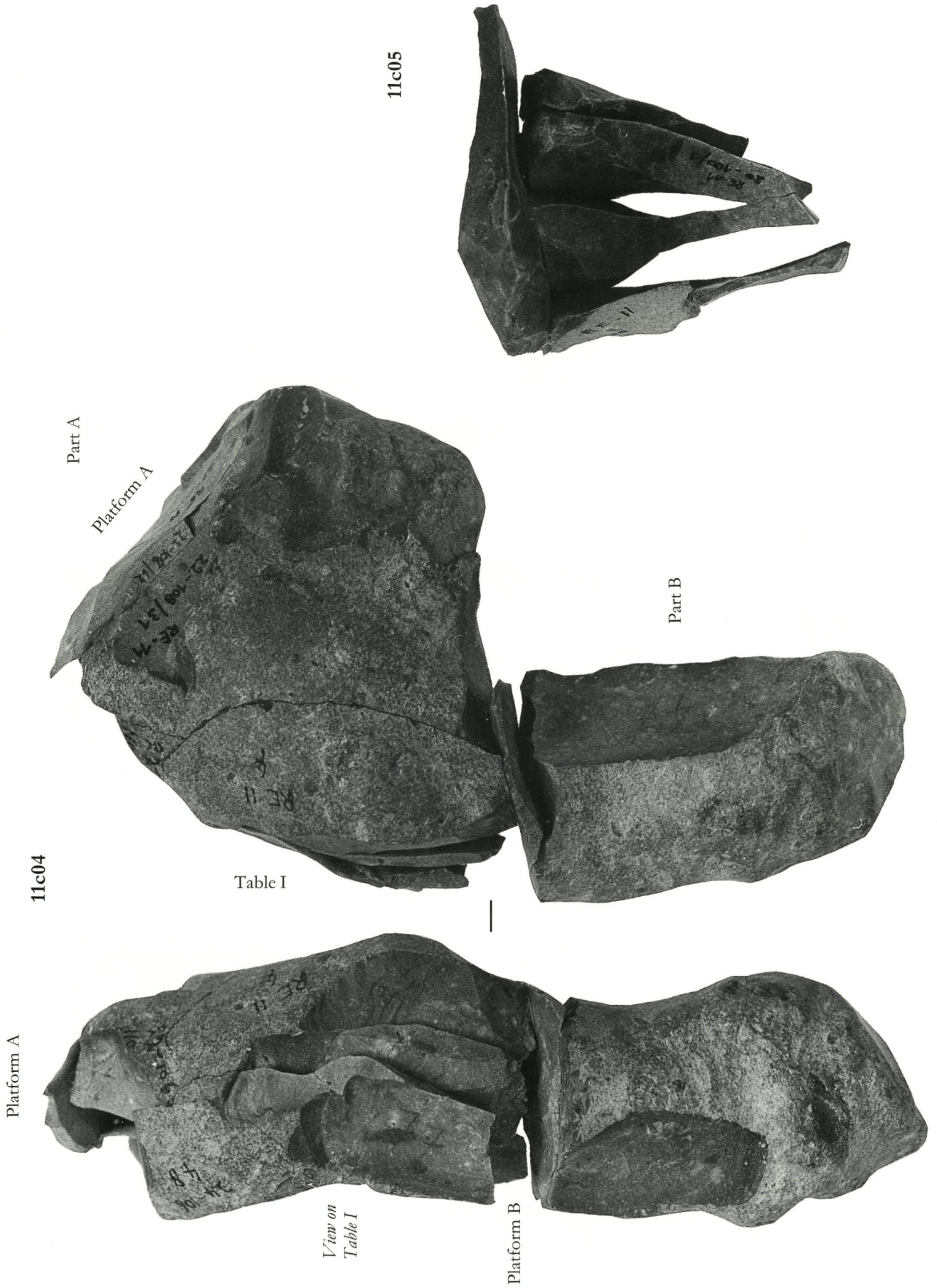
Platform A

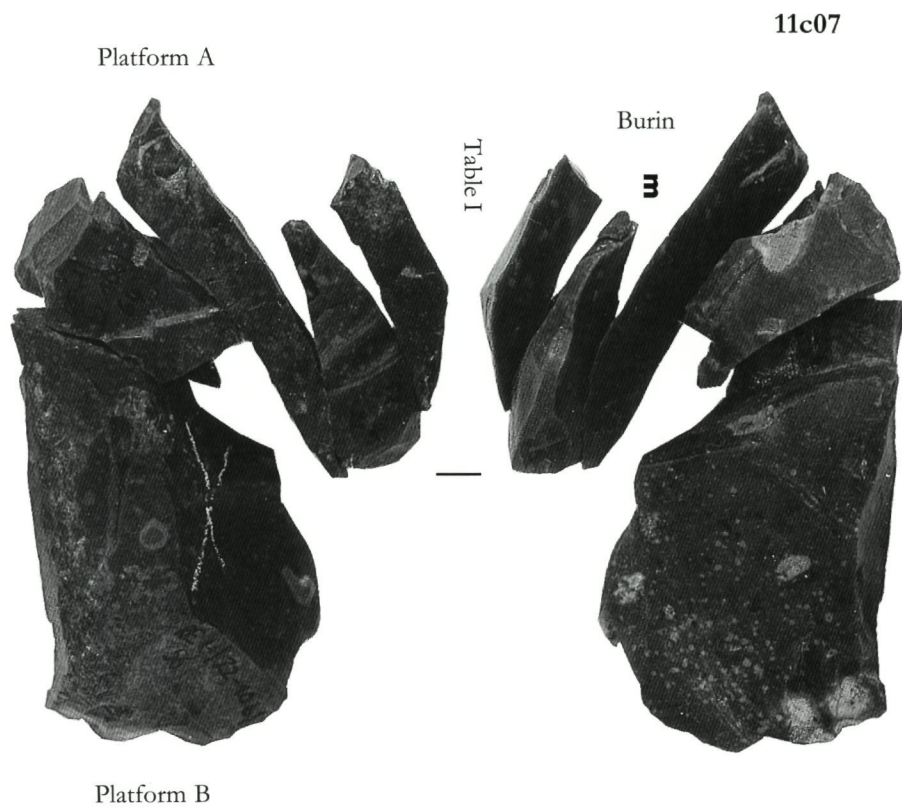
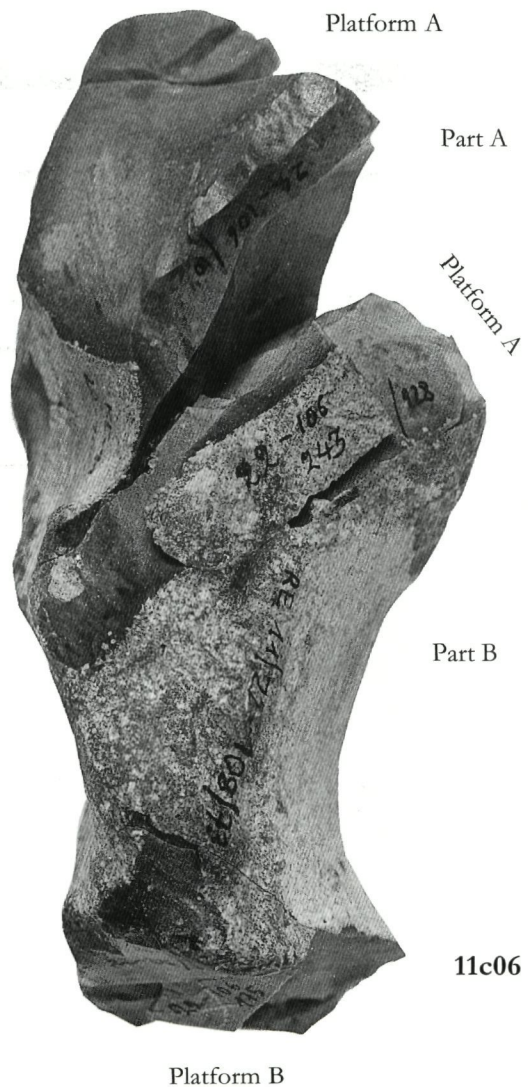


11c02



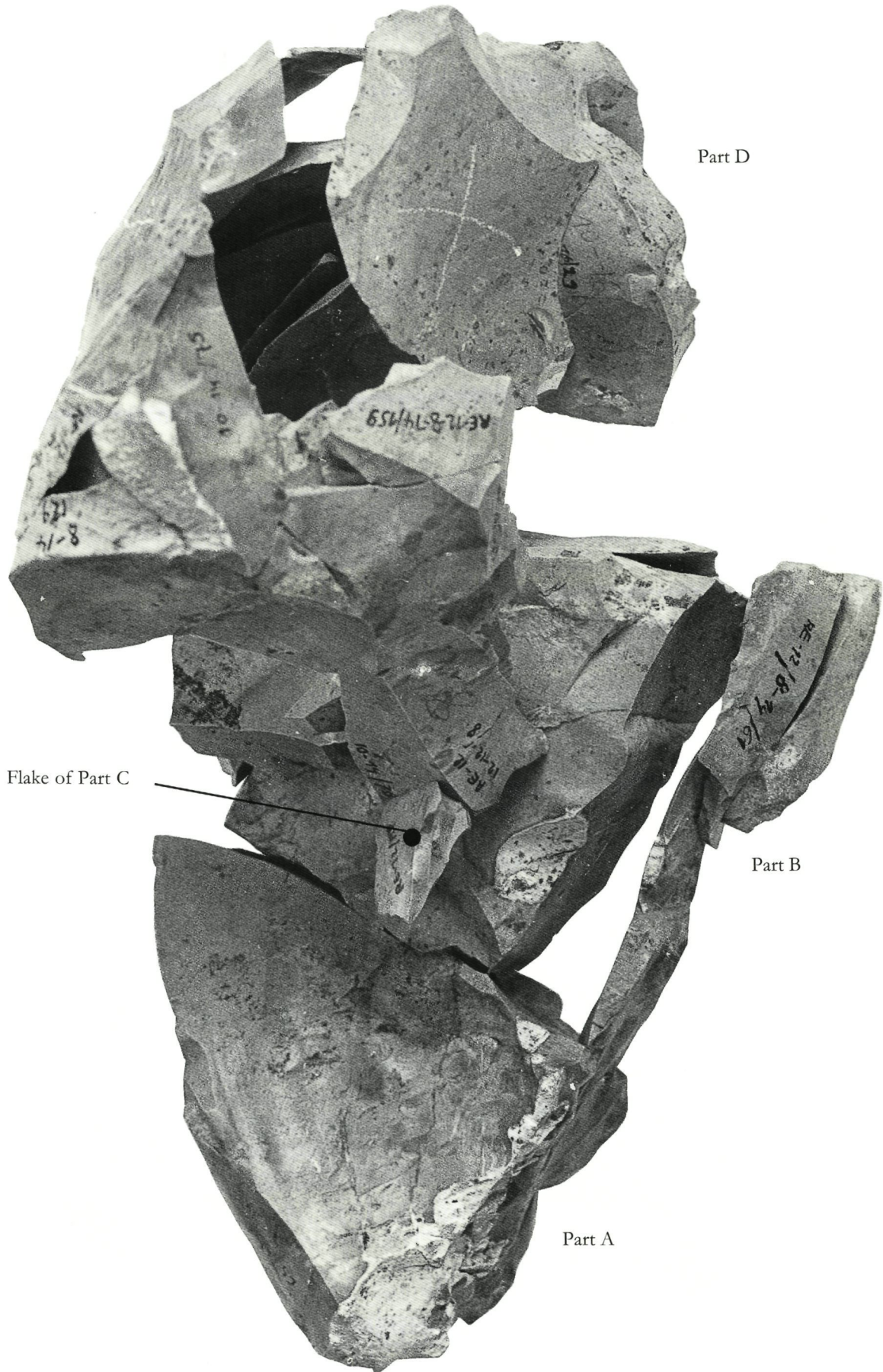
Pl. 53 Co-sets 11c04 & 11c05.



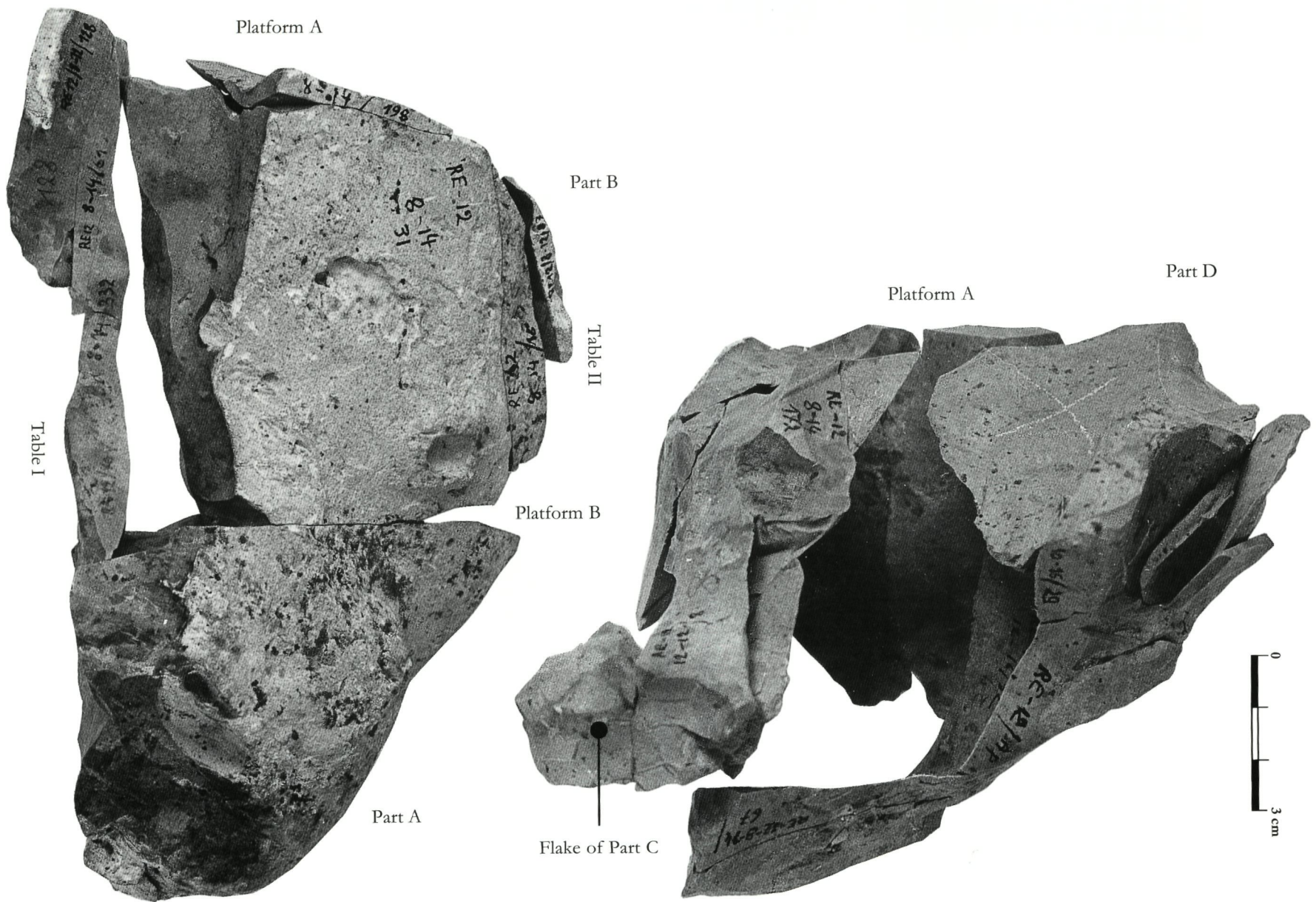


Pl. 54 Co-sets 11c06 & 11c07.

Pl. 55 Co-set 12c01 (complete).



Pl. 56 Co-sel 1201 (parts A, B & D).



Pl. 57 Co-set 12c03.



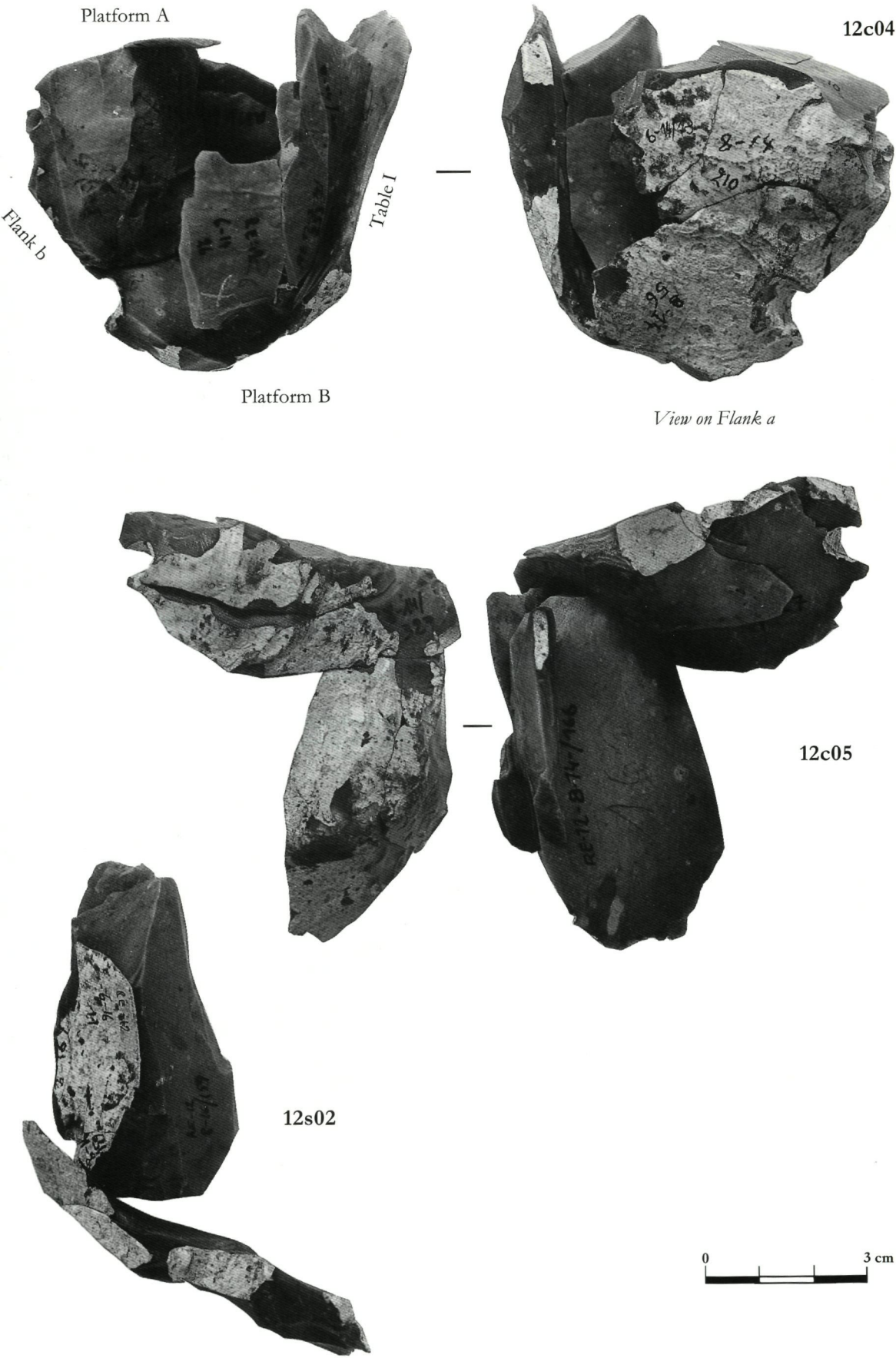
Platform A



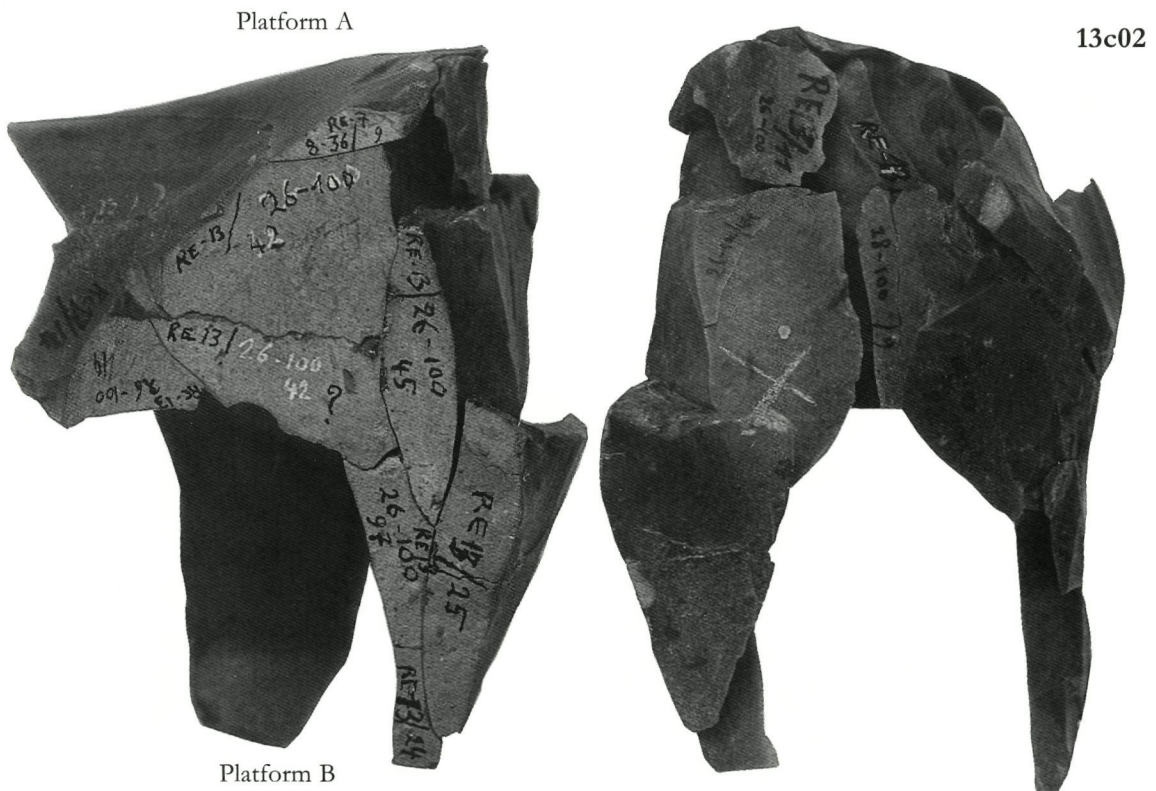
Table 1



Pl. 58 Co-sets 12c04 & 12c05; set 12s01.



Pl. 59 *Co-sets 13c01 & 13c02.*





Platform A



Platform B

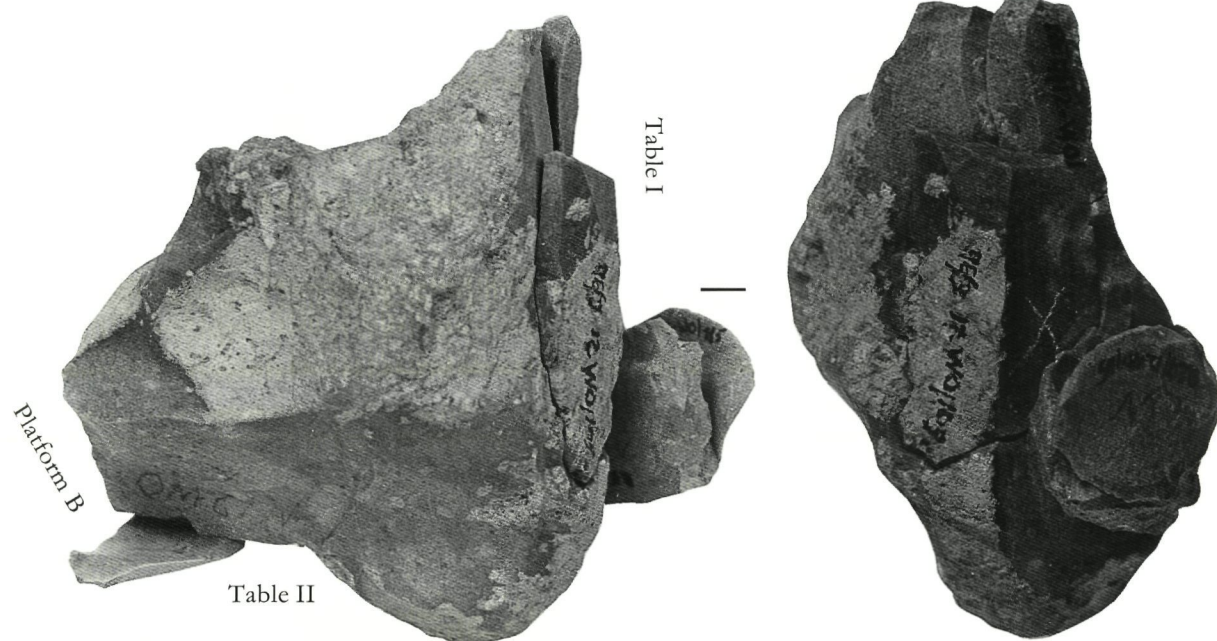
Table I

Pl. 61 Co-sets 15c02 & 15c03.

15c02

Platform A

Platform A

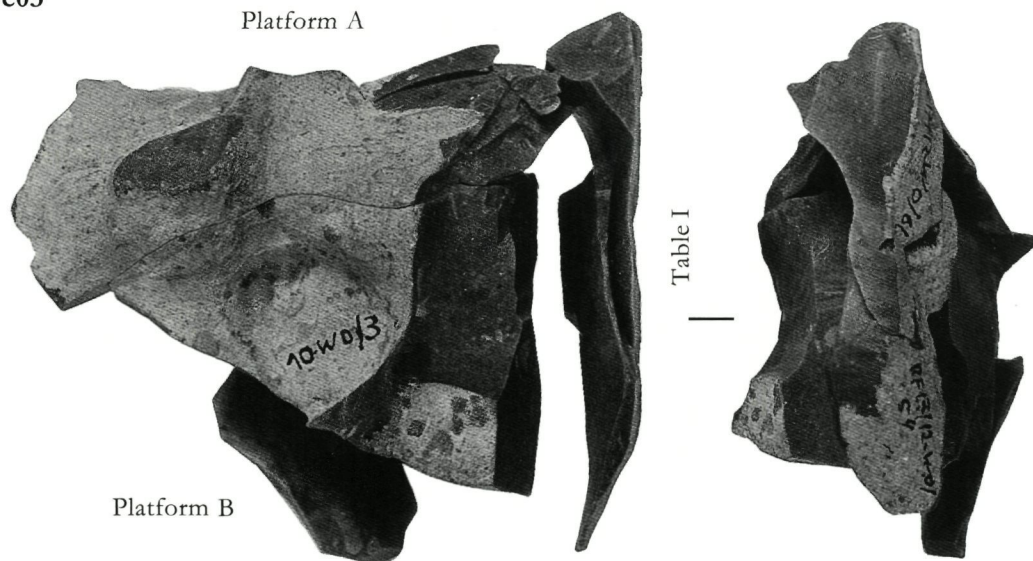


View on Table I

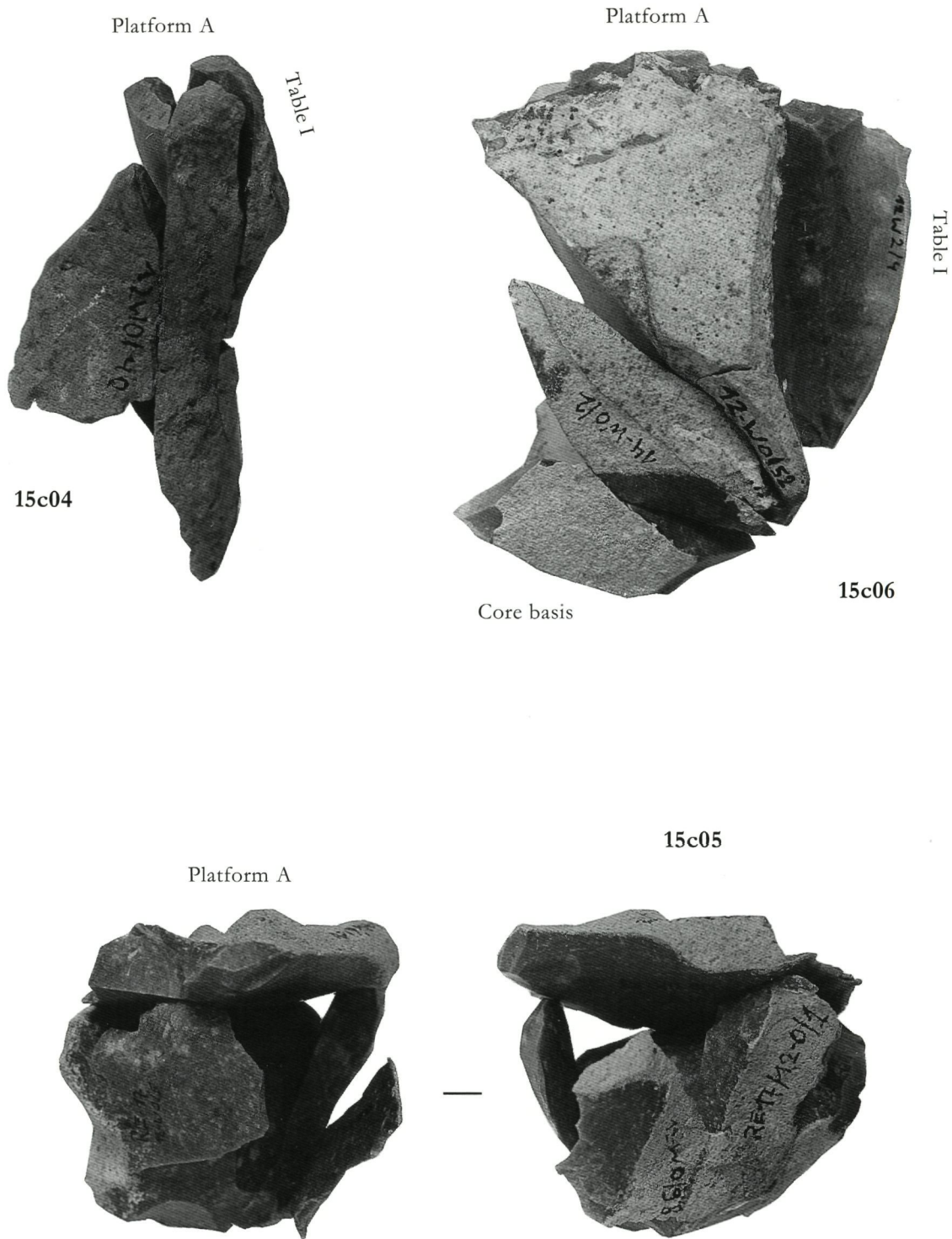
15c03

Platform A

Table I



Pl. 62 Co-sets 15c04, 15c05 & 15c06.



Pl. 64 Co-set 16c01 (other view).

Platform A



Platform B

Pl. 65 Co-sets 16c02 & 16c06.

View of Platform A

16c02

Platform A

Laminar sequence

*Front view
of final sequence*

Table I

Platform B

16c06

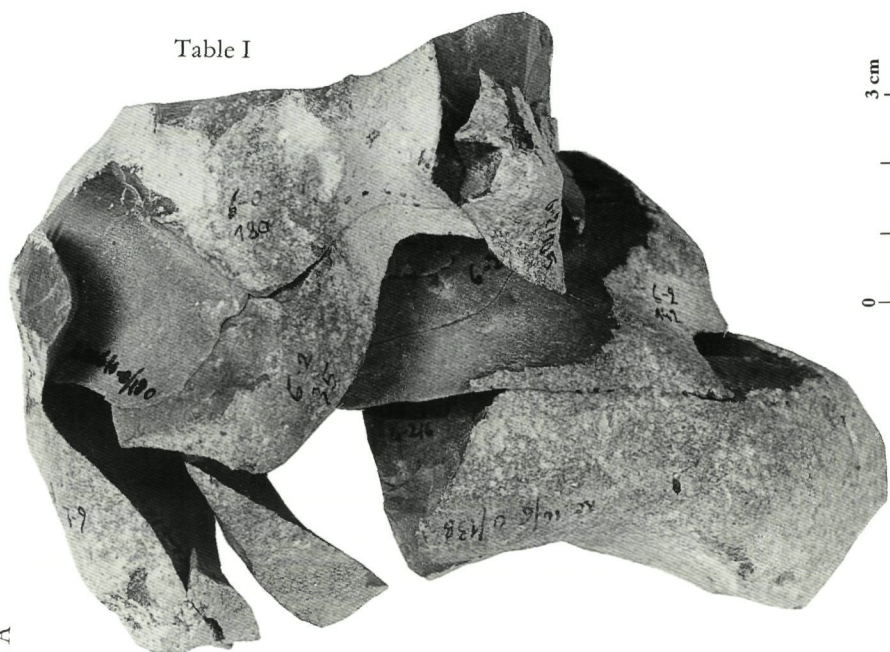
Table I

Platform A

0 3 cm



Table I



16c05

Platform A



Table I

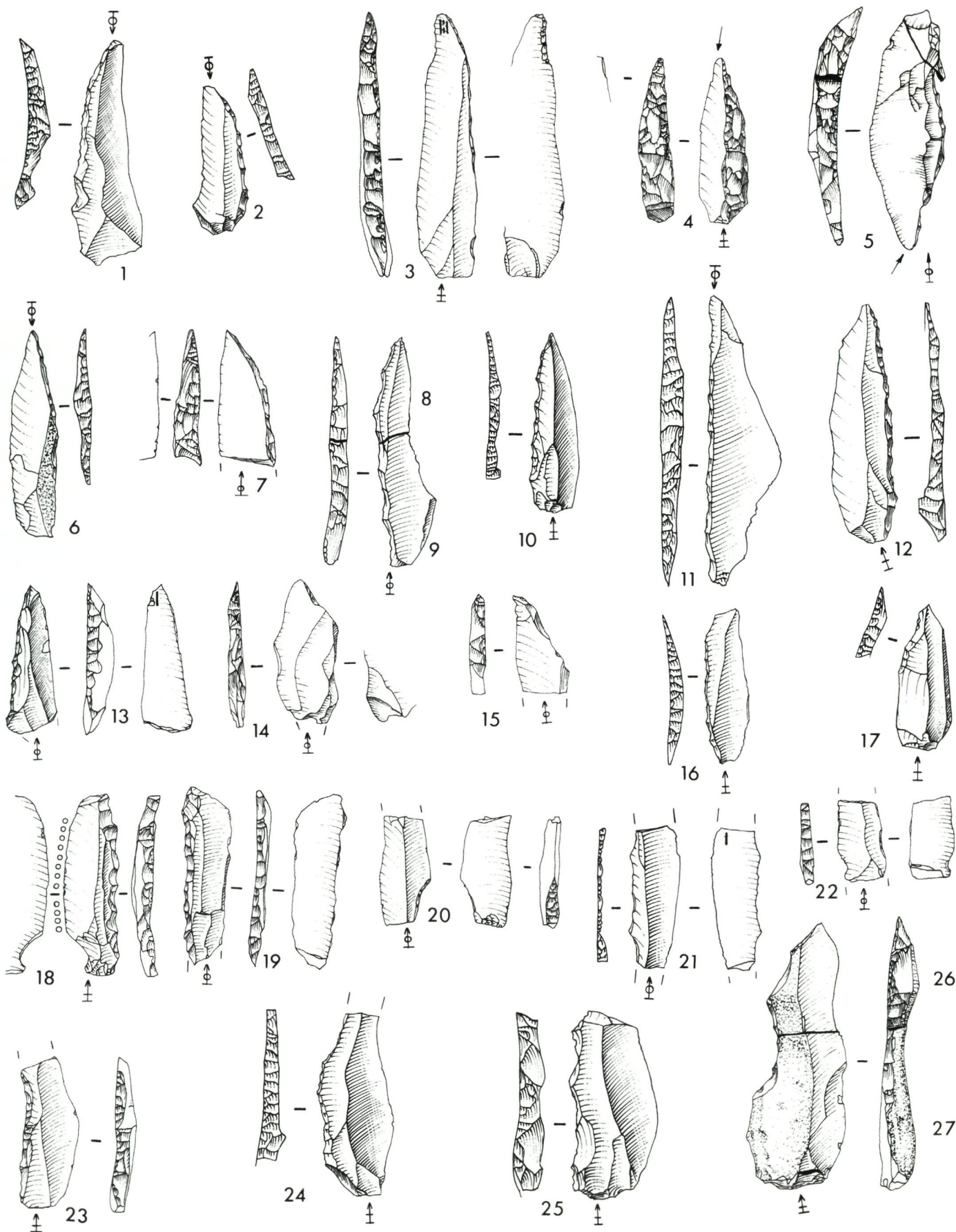
16c04

Platform A

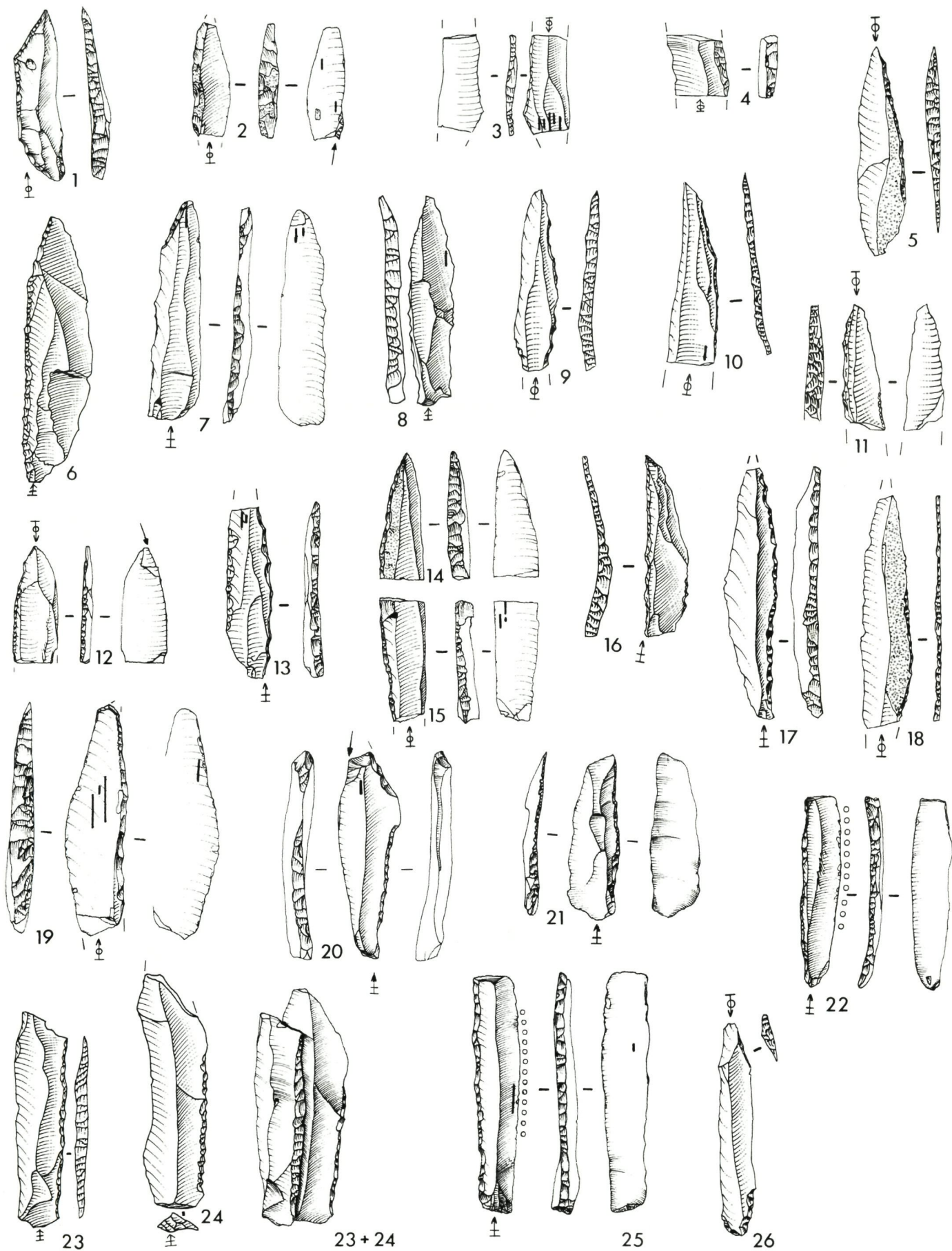


Platform B

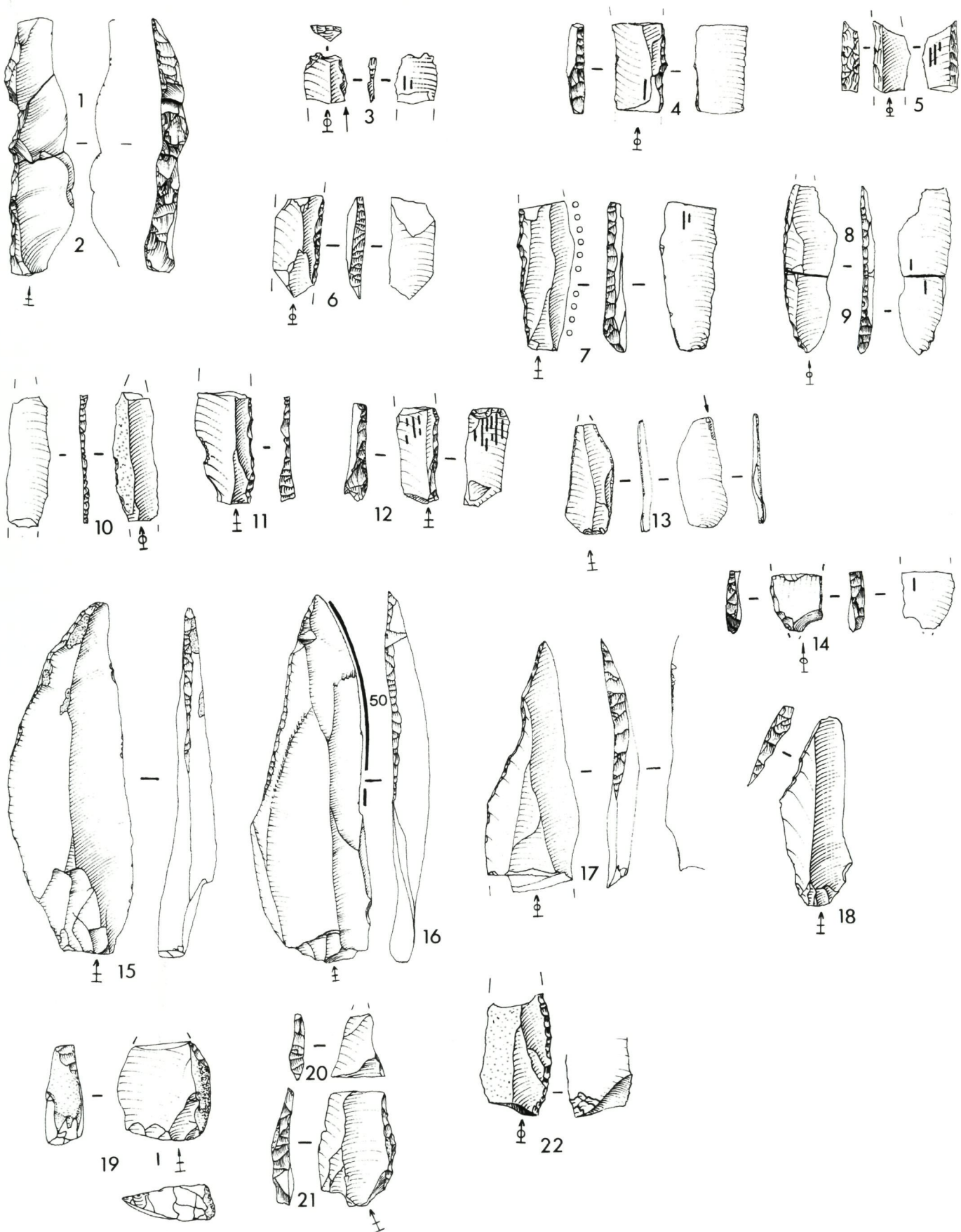
PL. 68 Laterally modified laminar pieces from Rekem 1. 1-9: curved backed points (nr. 5 refits with Krukowski microburin); 10-13: rectilinear backed points; 14-15: angled backed points; 16-23: backed bladelets; 24-27: undulated backed pointed blades.



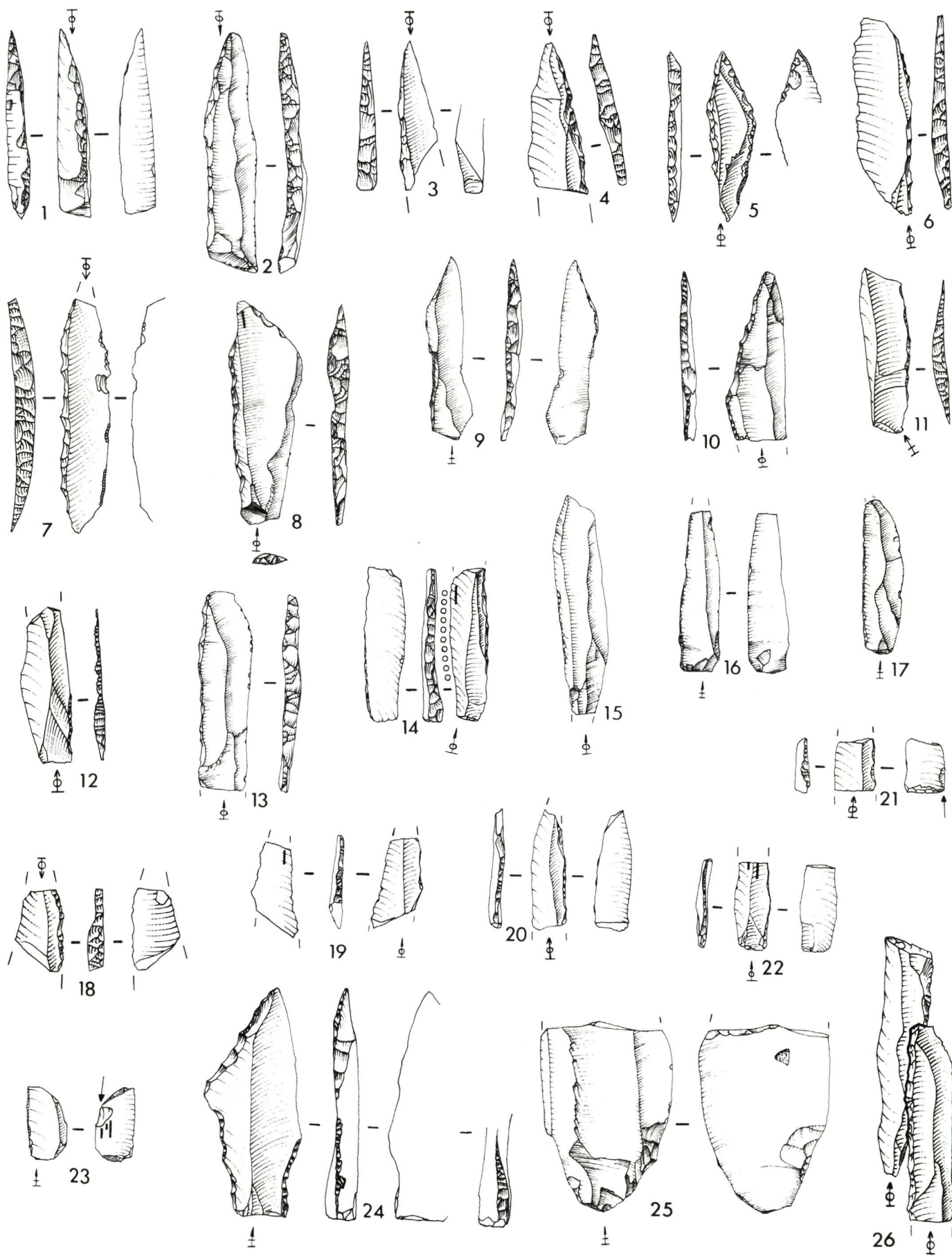
PL. 69 Laterally modified laminar pieces from Rekem 2 (1-3), Rekem 4 (4), and Rekem 5 (5-26). 1, 5-15: curved backed points; 2, 16-19: rectilinear backed points; 3-4, 21-26: backed bladelets; 20: angled backed point; 23+24: reduction refit of 2 backed bladelets.



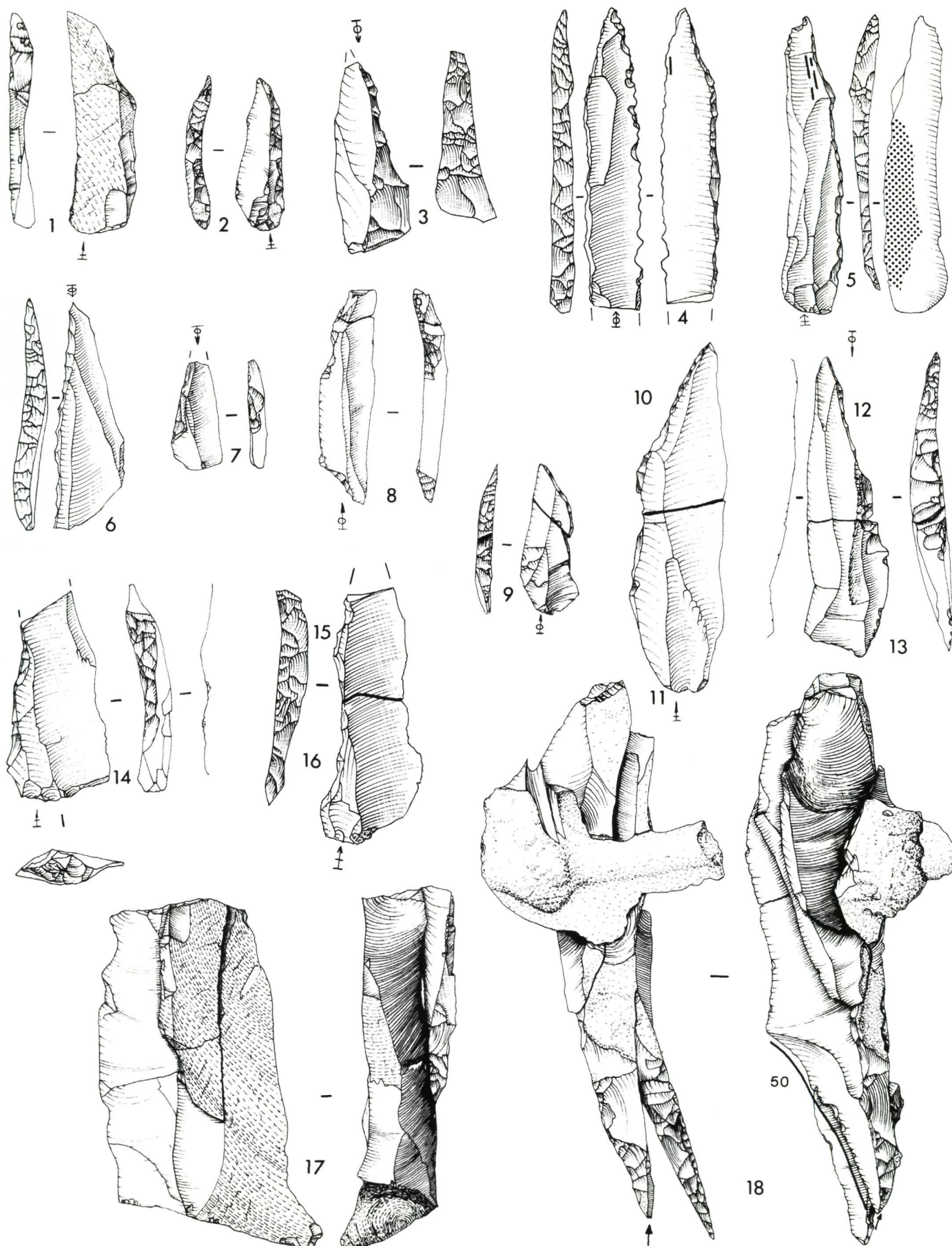
PL. 70 Laterally modified laminar pieces from Rekem 5. 1-12: backed bladelets (nr. 1-2 refits also with Krukowski microburin); 13: bladelet with marginal retouch; 14: bladelet with both edges retouched; 15: curved backed pointed blade; 16: rectilinear backed pointed blade; 17: undulated backed pointed blade; 18-21: backed blades; 22: blade with marginal retouch.



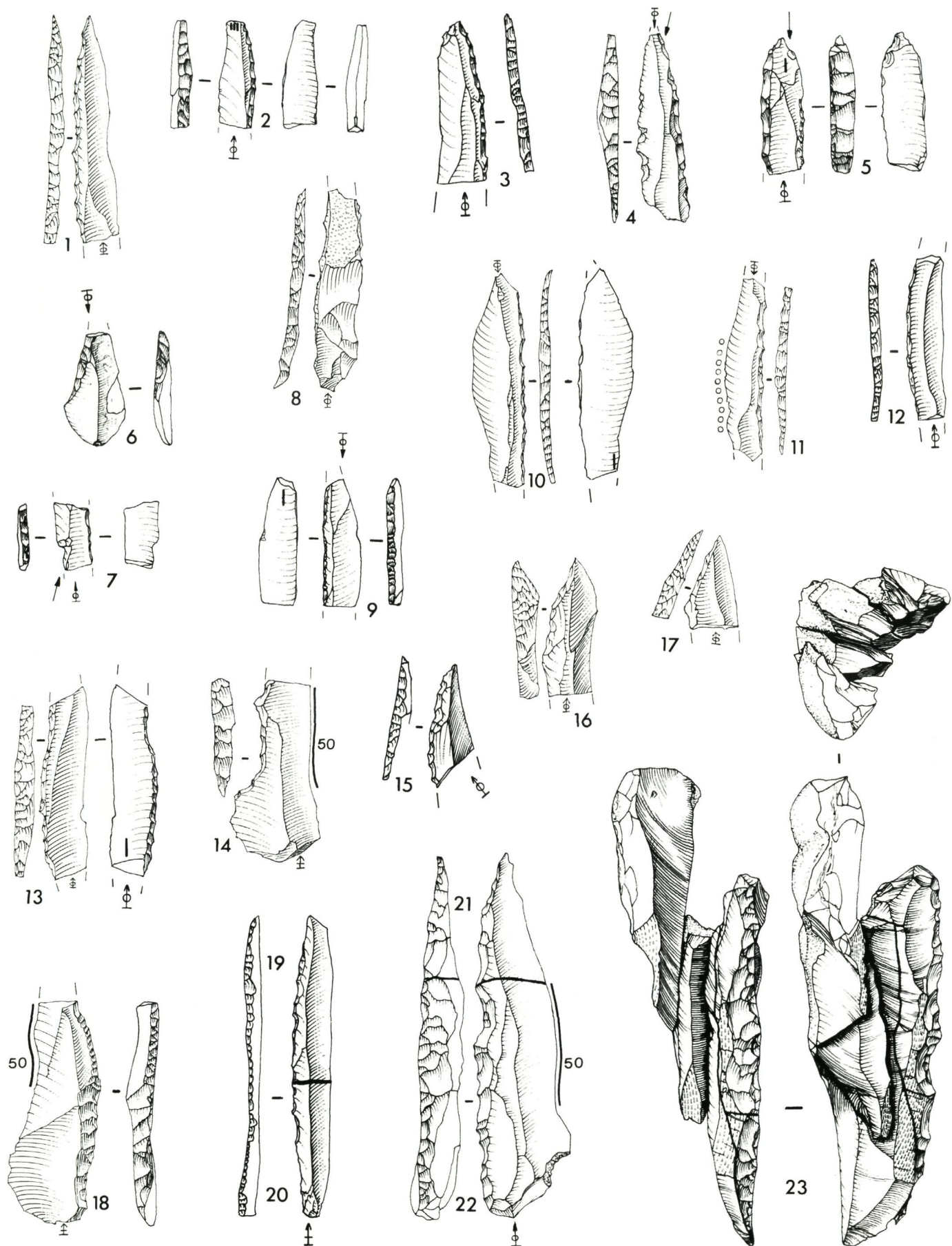
PL. 71 *Laterally modified laminar pieces from Rekem 6. 1-4: curved backed points; 5-8: rectilinear backed points; 9-10: angled backed points; 11-14, 18-19: backed bladelets; 15-17, 20-23: bladelets with marginal retouch; 24: undulated backed pointed blade; 25: blade with both edges retouched; 26: reduction refit of backed bladelet on curved backed point.*



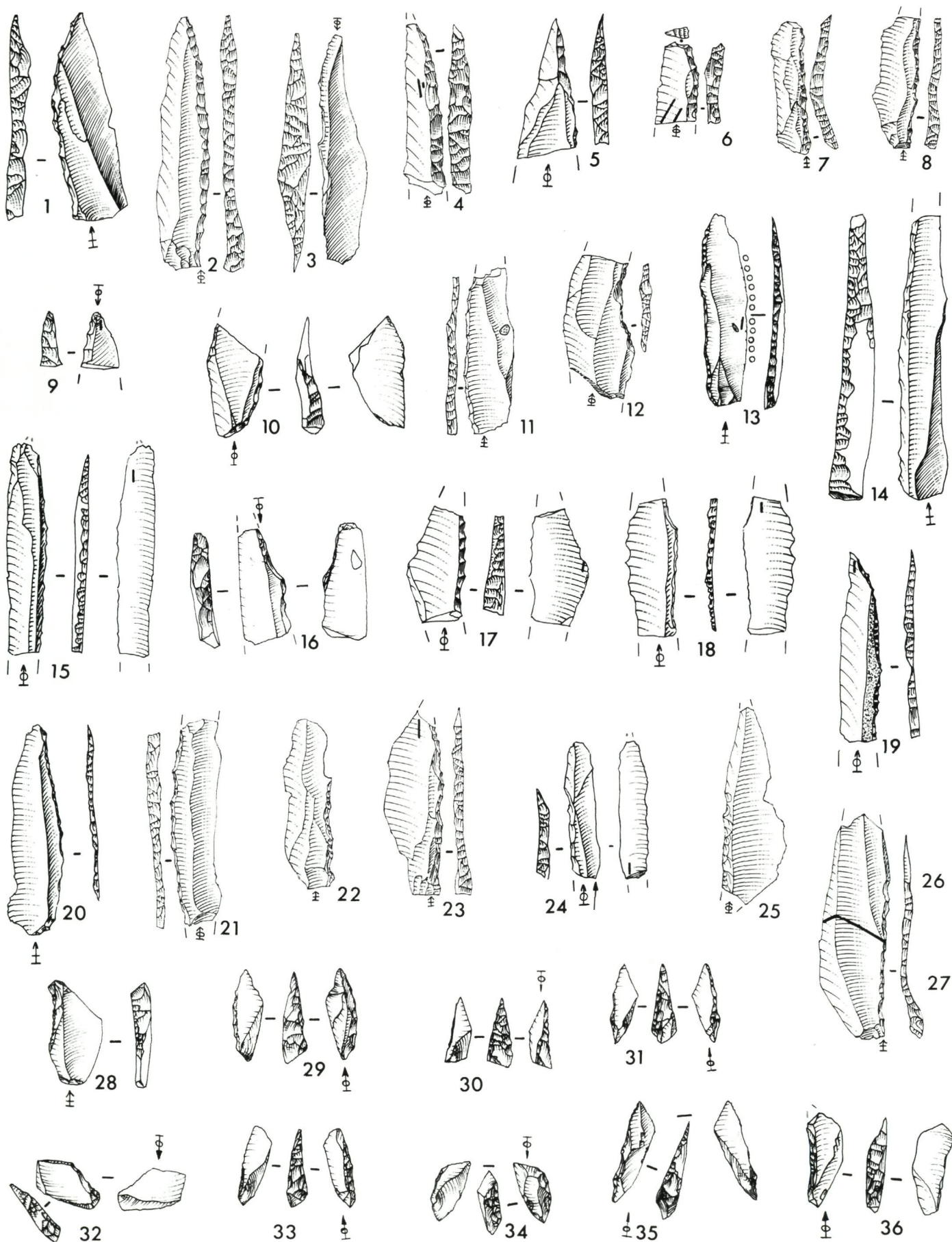
Pl. 72 Laterally modified laminar pieces from Rekem 7. 1-2, 4-5: curved backed points (nr. 5 with dotted area indicating attachment of resin); 3: rectilinear backed pointed blade; 6: rectilinear backed point; 7: obliquely backed point; 8-9: backed bladelets, both refitting with Krukowski microburins; 10-11: curved backed pointed blade; 12-13: rectilinear backed pointed blade; 14: undulated backed pointed blade; 15-16: backed blade; 17: part of a reduction sequence including a curved backed point (nr. 1); 18: part of a reduction sequence (07c06) including a curved backed pointed blade (nr. 10-11).



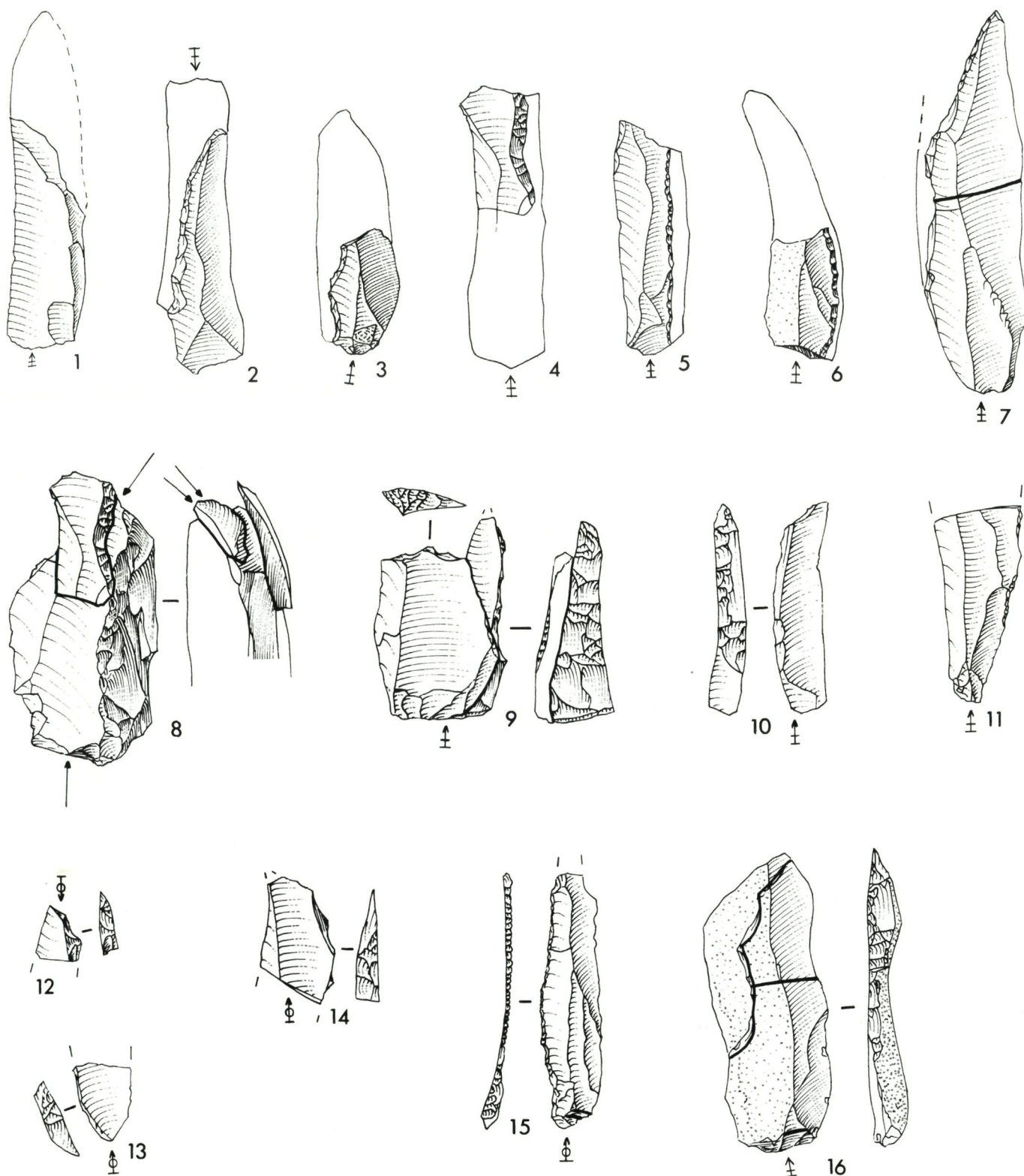
Pl. 73 Laterally modified laminar pieces from Rekem 10 (1-14), and Rekem 11 (15-23). 1-3, 15-16: curved backed points; 4-5: rectilinear backed points; 6: obliquely backed point; 7-13, 19-20: backed bladelets; 14: undulated backed pointed blade; 17: angled backed point; 18: backed blade; 21-22: curved backed pointed blade; 23: part of a reduction sequence including a curved backed pointed blade (nr. 21-22).



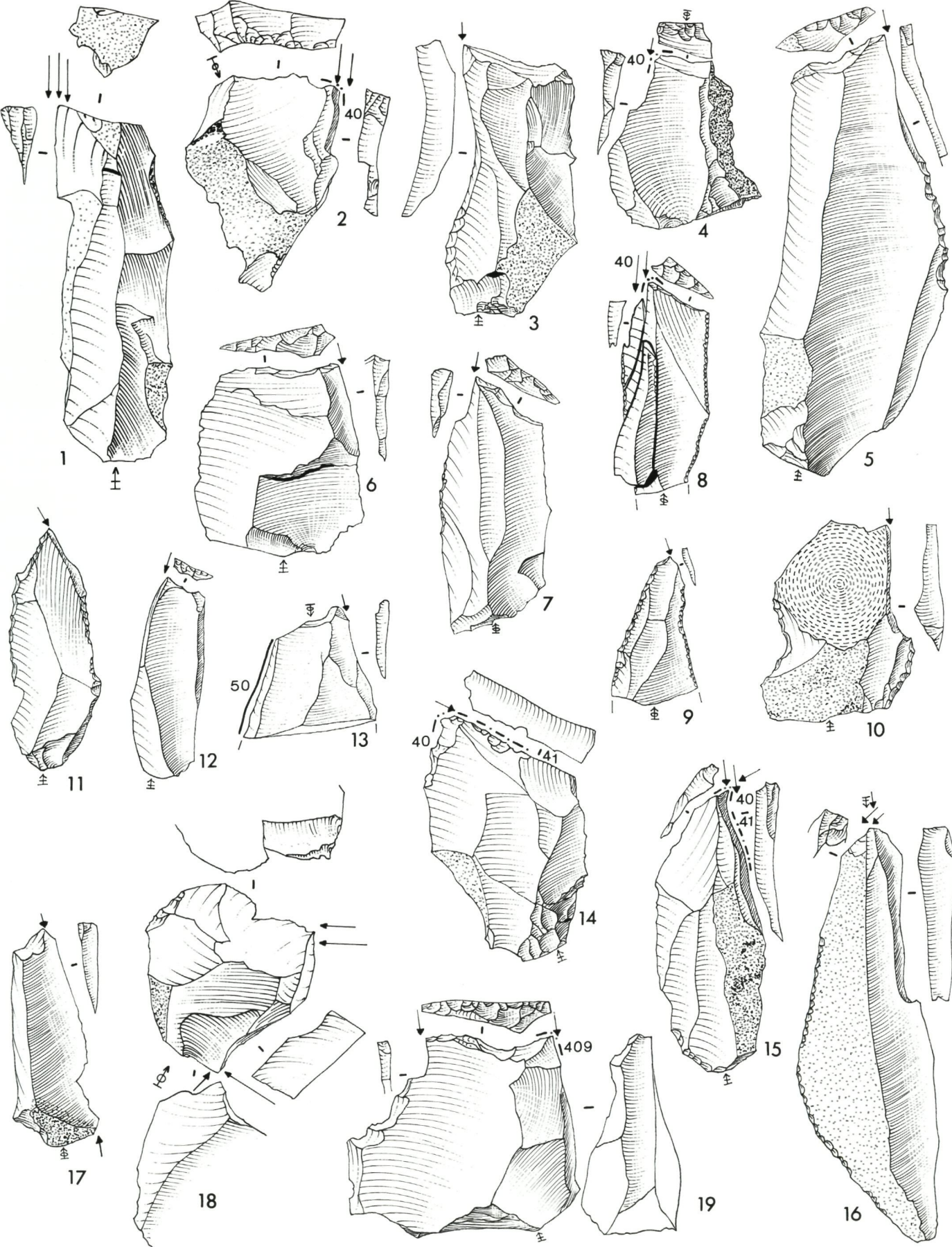
Pl. 74 Laterally modified laminar pieces and Krukowski microburins from Rekem 12 (1-15, 36), Rekem 13 (16), Rekem 16 (17-18), Rekem 14 (19-27), Rekem 1 (28-30), and Rekem 7 (31-35). 1-5, 9, 19: curved backed points; 6-8, 10-11, 13-15, 17-18, 20-24: backed bladelets; 12, 26-27: backed blades; 16: angled backed point; 25: bladelet with marginal retouch; 28-36: Krukowski microburins.



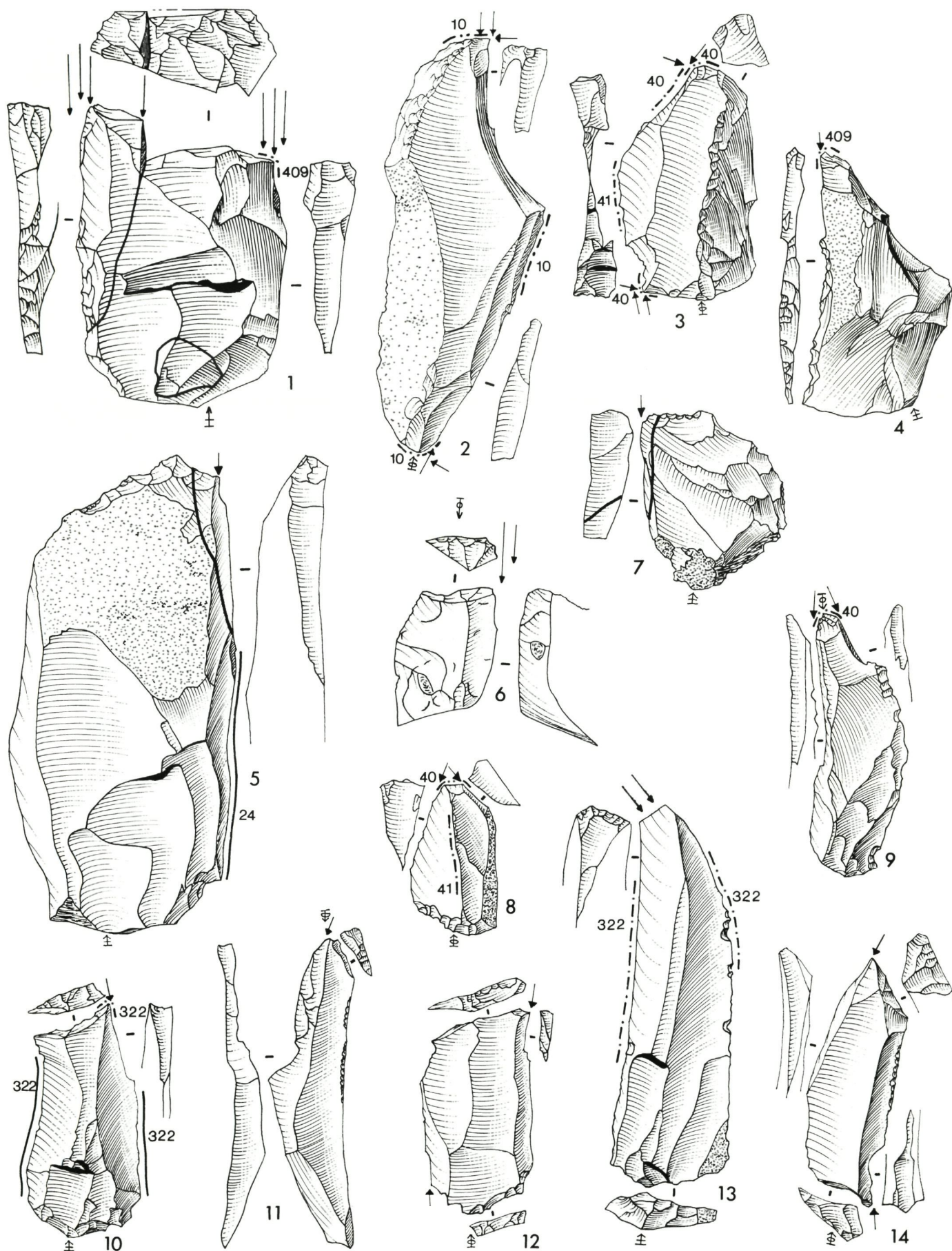
Pl. 75 Laterally modified laminar pieces, reconstruction of the original outline of their refitted blanks (1-7, 16), and some other tools from Rekem 7 (1, 3-4, 7, 8-15), Rekem 1 (2, 16), and Rekem 5 (5-6). 1-2, 10, 12: curved backed points; 5, 13, 15: backed bladelets; 7, 16: curved backed pointed blade; 3-4, 14: backed blades; 6, 11: blades with marginal retouch; 8: refit of backed blade on burin; 9: refit of truncated tool on curved backed point.



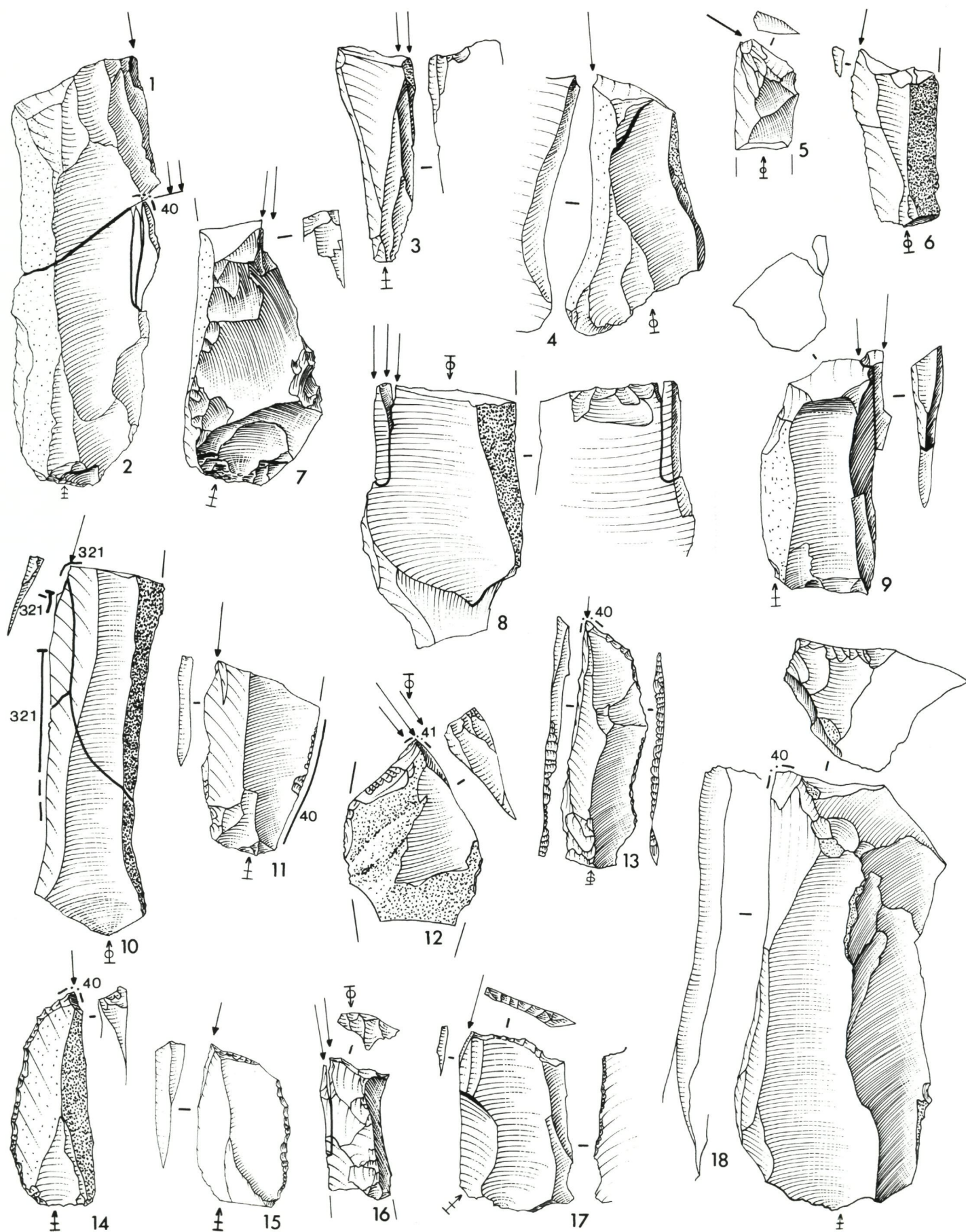
Pl. 76 Burins from Rekem 1. 1-2: on unmodified end; 3: on broken end; 4-9: on truncation; 10-14: atypical Lacan burins; 15-16: dibedral burins; 17-19: multiple burins.



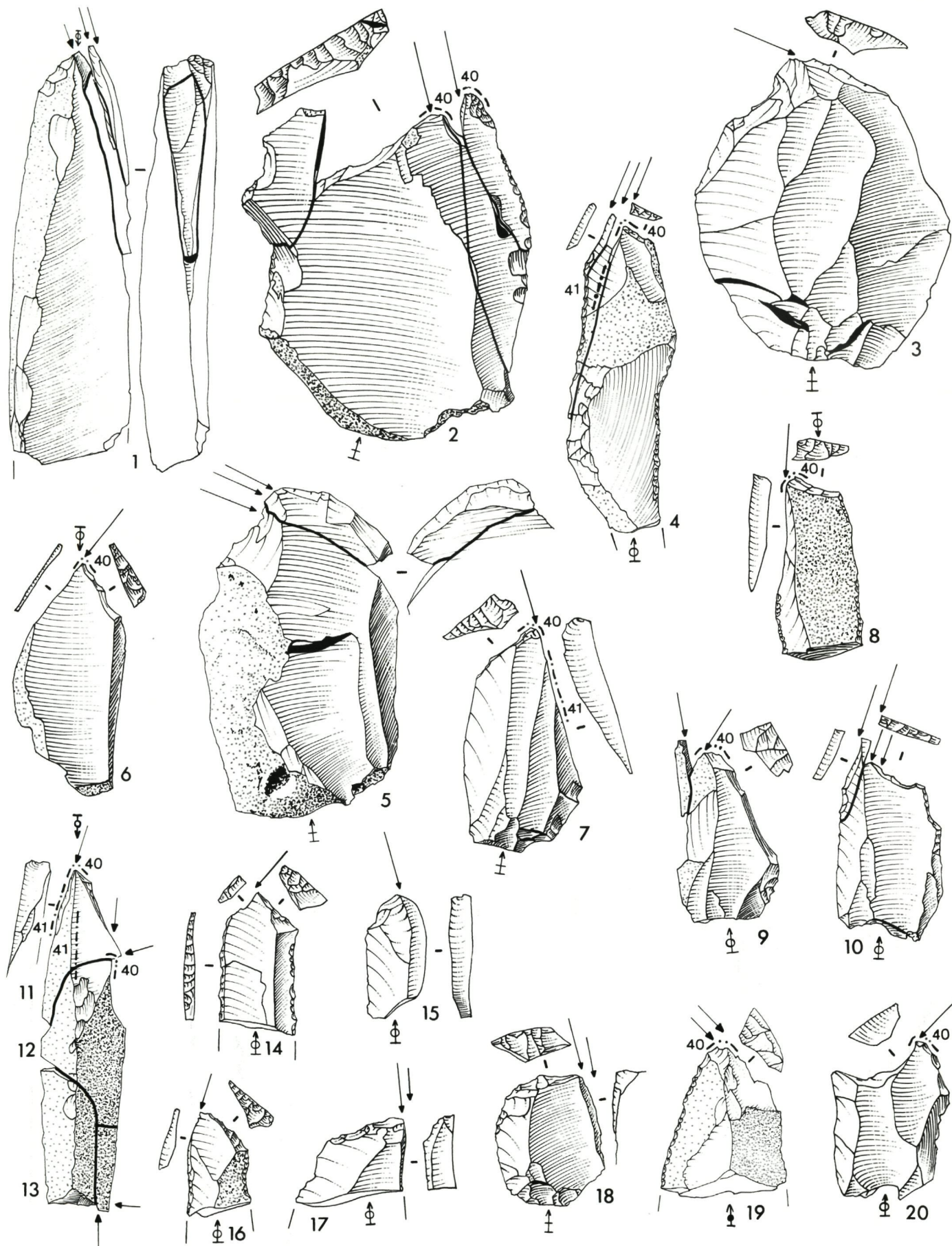
Pl. 77 Burins from *Rekem 1* (1-3), *Rekem 2* (4-9), and *Rekem 4* (10-14). 1-3, 12, 14: multiple burins; 4: on unmodified end; 5-7, 10: on truncation; 8-9: dibedral burins; 11: atypical Lacan burin; 13: transverse burin on unmodified edge.



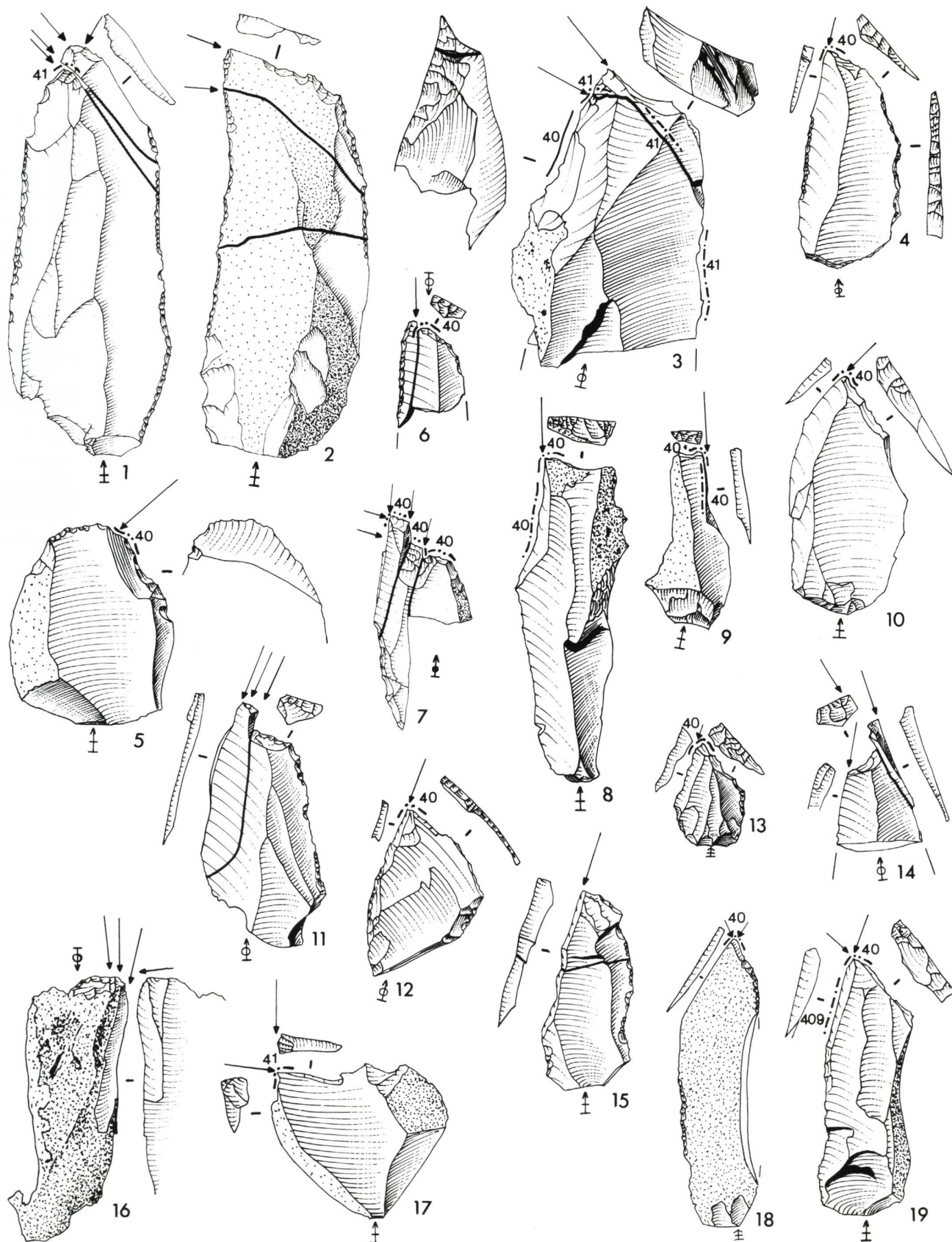
Pl. 78 Burins from Rekem 5. 1, 3-4: on unmodified end; 2, 6-12: on broken end; 5: transverse burin on unmodified edge; 13-18: on truncation.



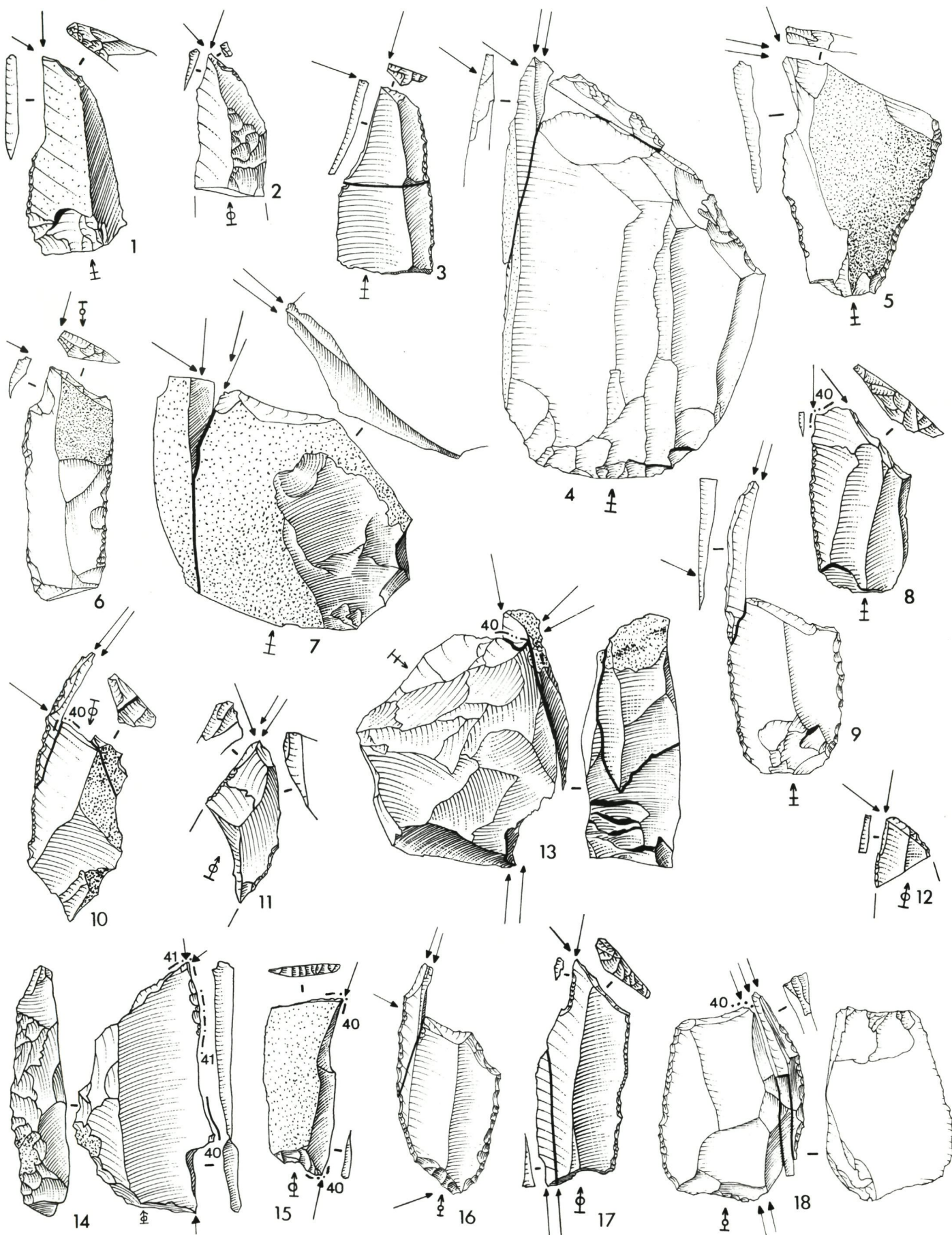
Pl. 79 Burins from Rekem 5. 1-11, 14-18: on truncation; 12-13: dibedral burins; 19-20: transverse burins on retouched edge.



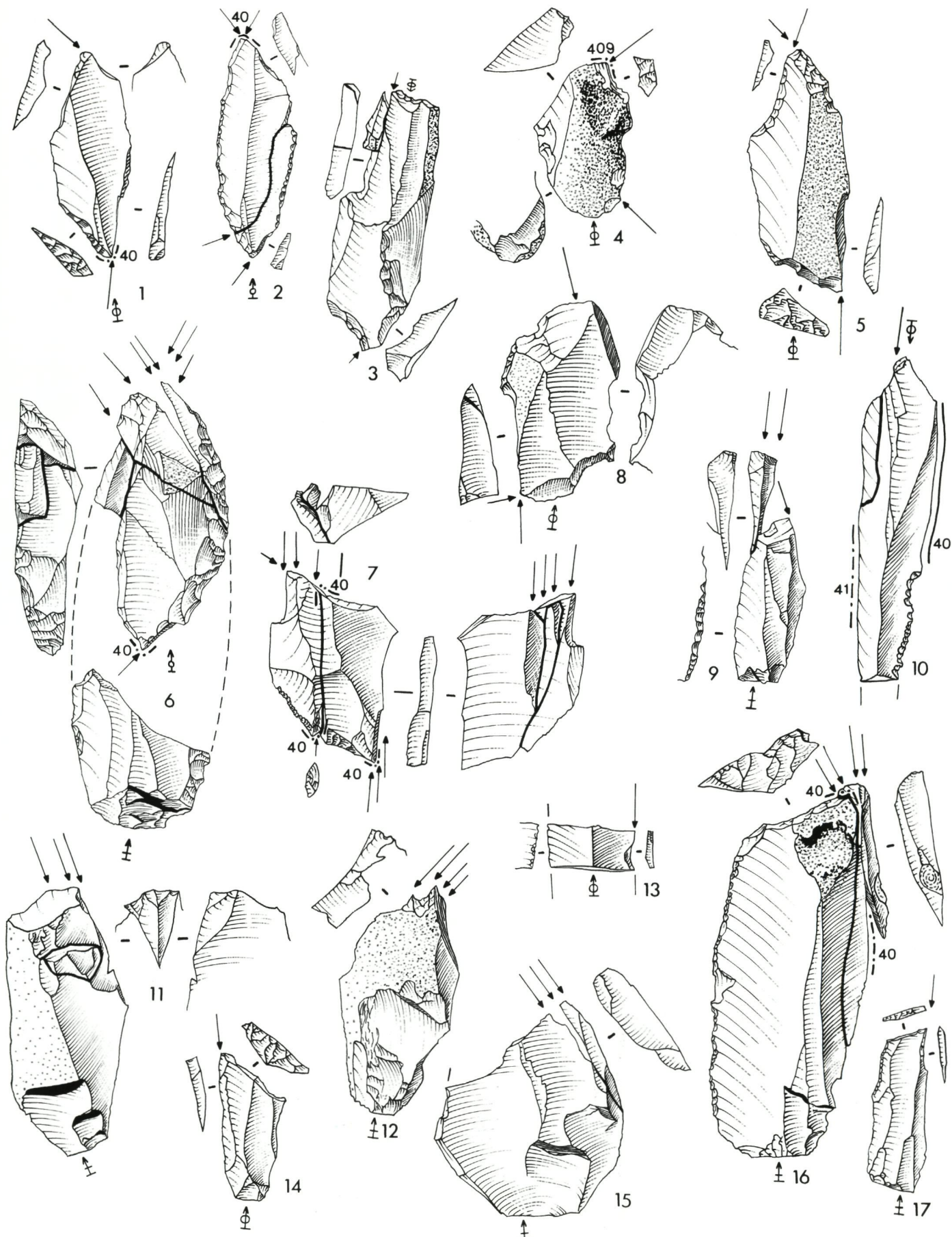
Pl. 80 Burins from Rekem 5. 1-3, 5: transverse burins on retouched edge; 4, 6-15: atypical Lacan burins; 16-19: dihedral burins.



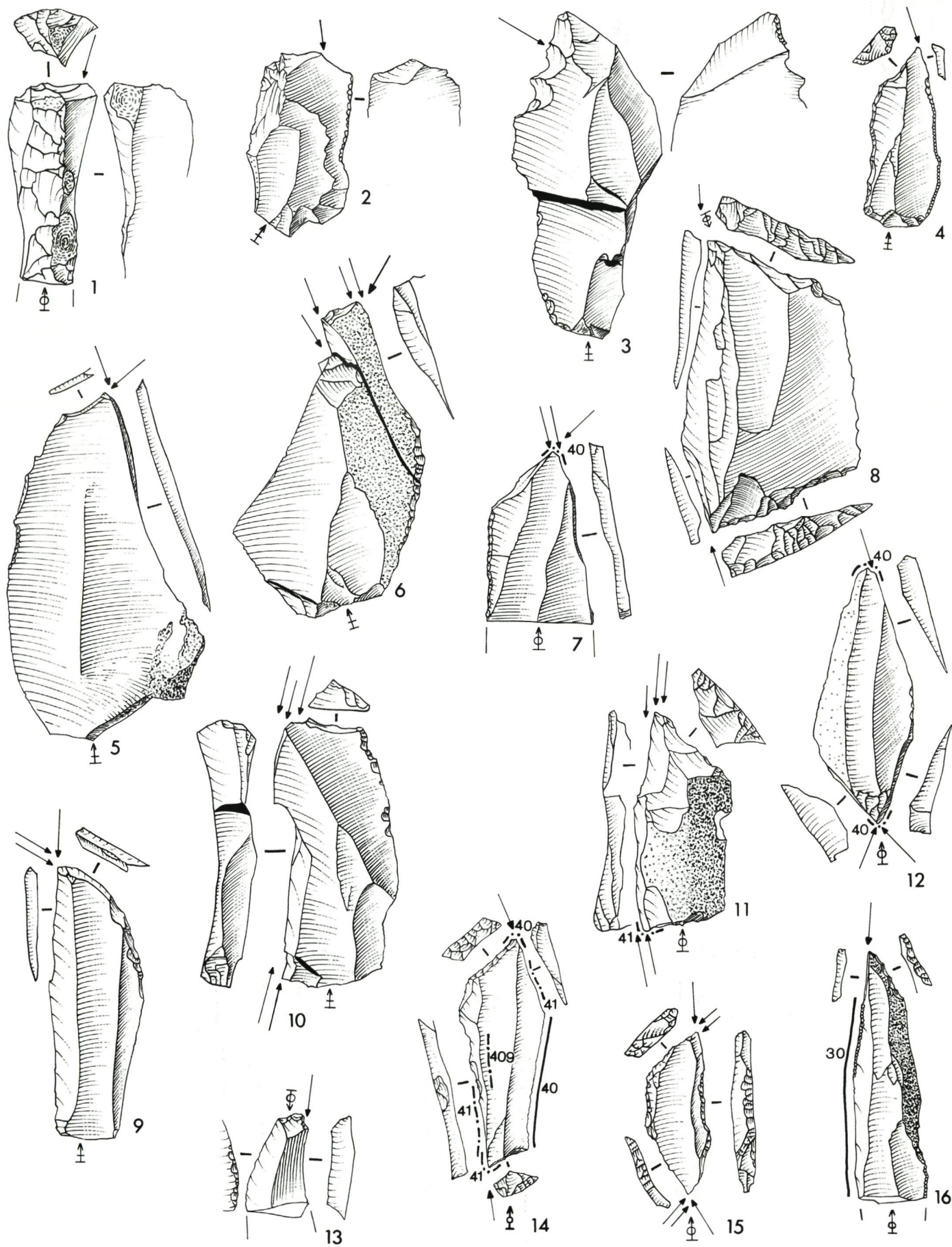
Pl. 81 *Burins from Rekem 5. 1-12: dibedral burins; 13-18: multiple burins.*



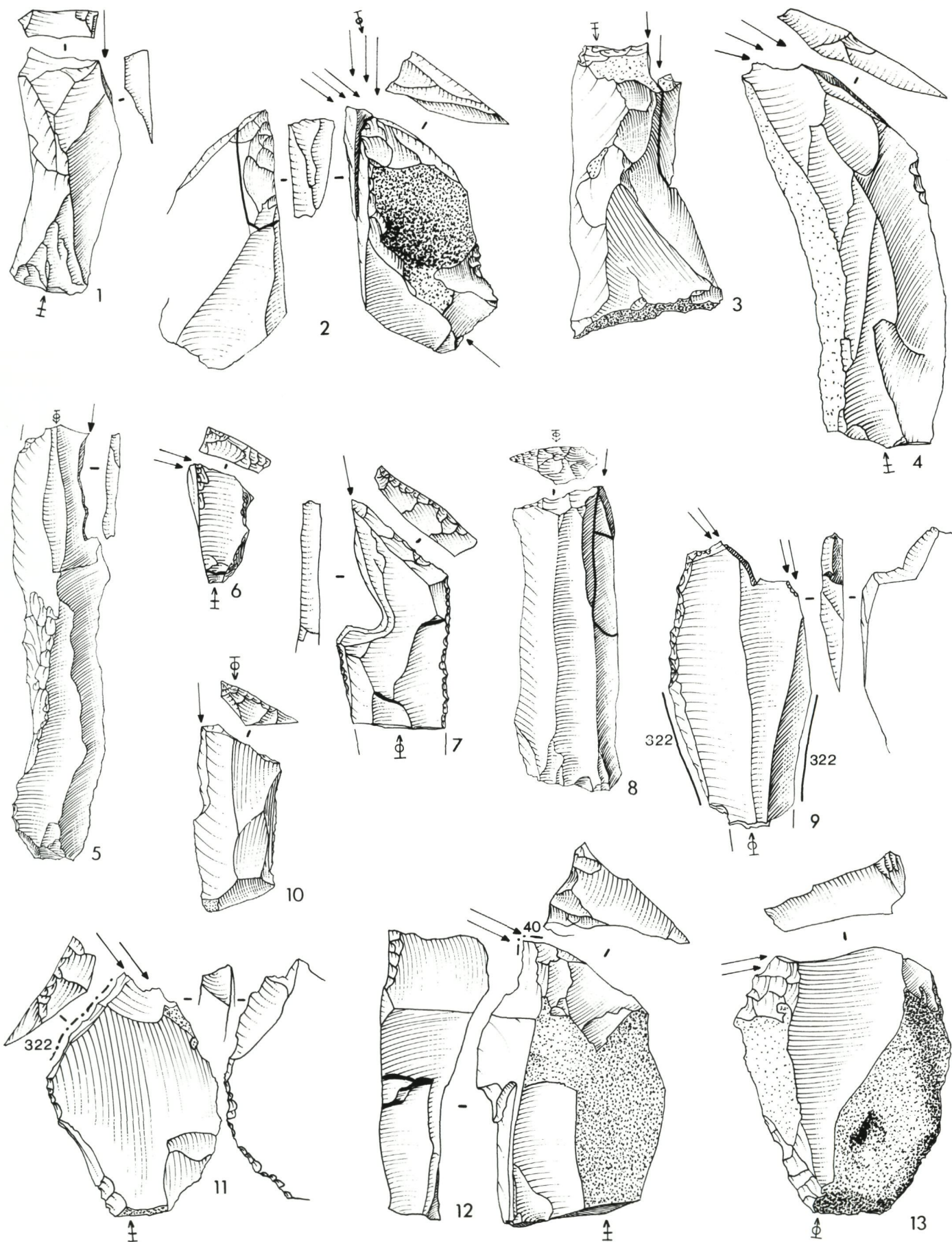
Pl. 82 Burins from Rekem 5 (1-9), and Rekem 6 (10-17). 1-9: multiple burins; 10-12: on unmodified end; 13, 15: on broken end; 14, 16: on truncation; 17: atypical Lacan burin.



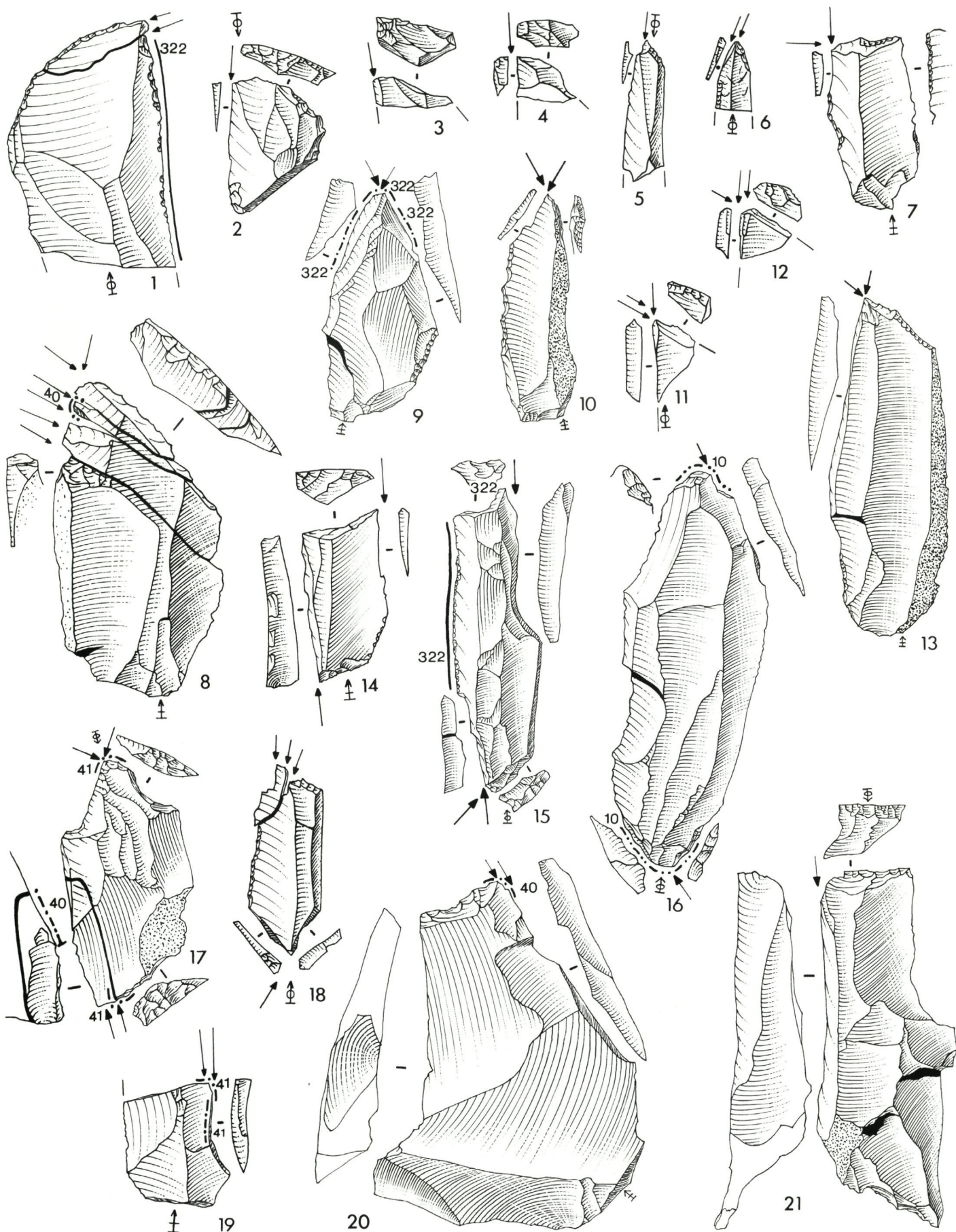
Pl. 83 *Burins from Rekem 6. 1-2, 16: on truncation; 3: transverse burin on retouched edge; 4, 13: atypical Lacan burins; 5-7, 9: dihedral burins; 8, 10-12, 14-15: multiple burins.*



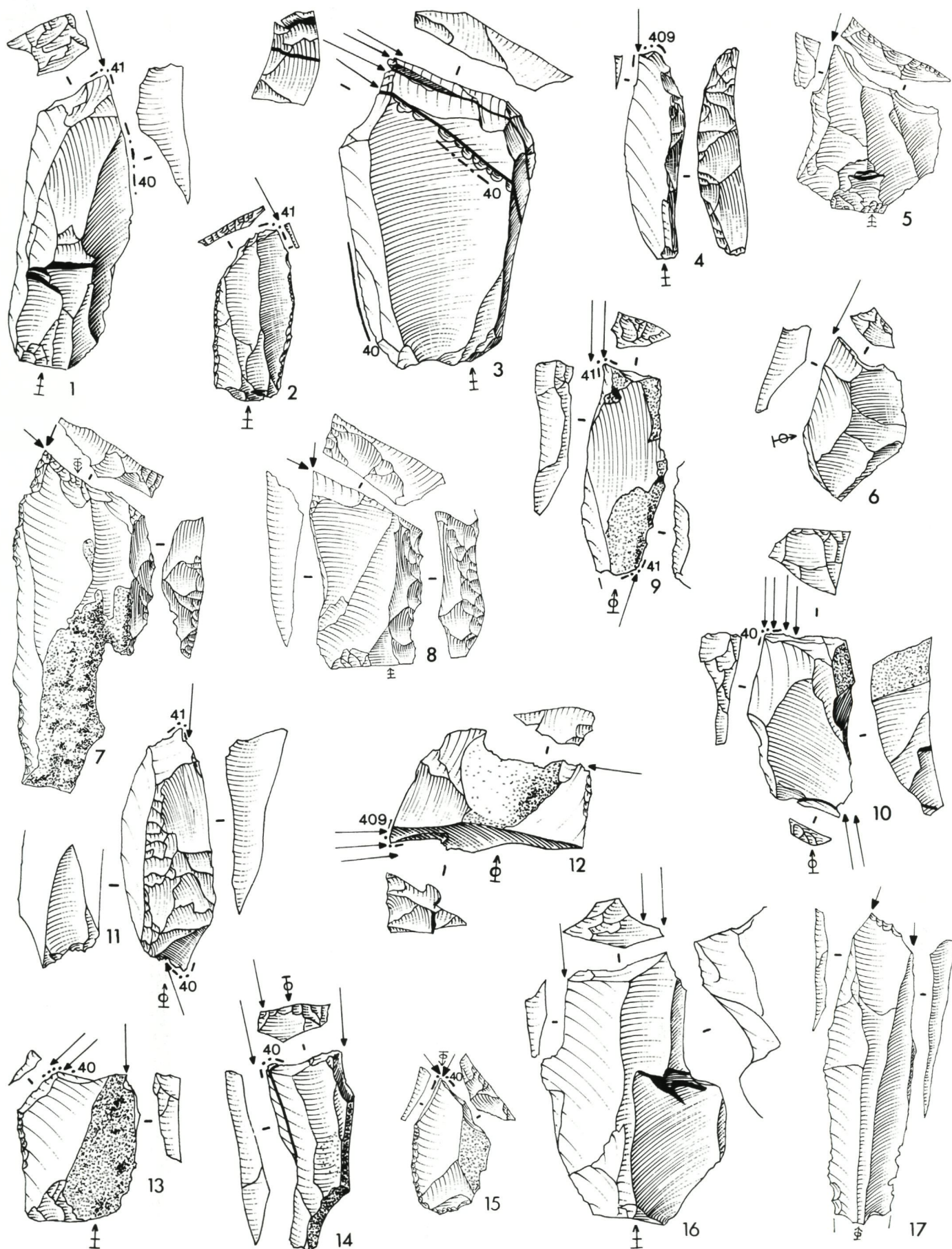
Pl. 84 Burins from Rekem 7 (1-2), and Rekem 10 (3-13). 1, 10: atypical Lacan burins; 2: multiple burin; 3: on unmodified end; 4: transverse burin on unmodified edge; 5: on broken end; 6: transverse burin on broken edge; 7-9, 11: on truncation; 12-13: transverse burin on retouched edge.



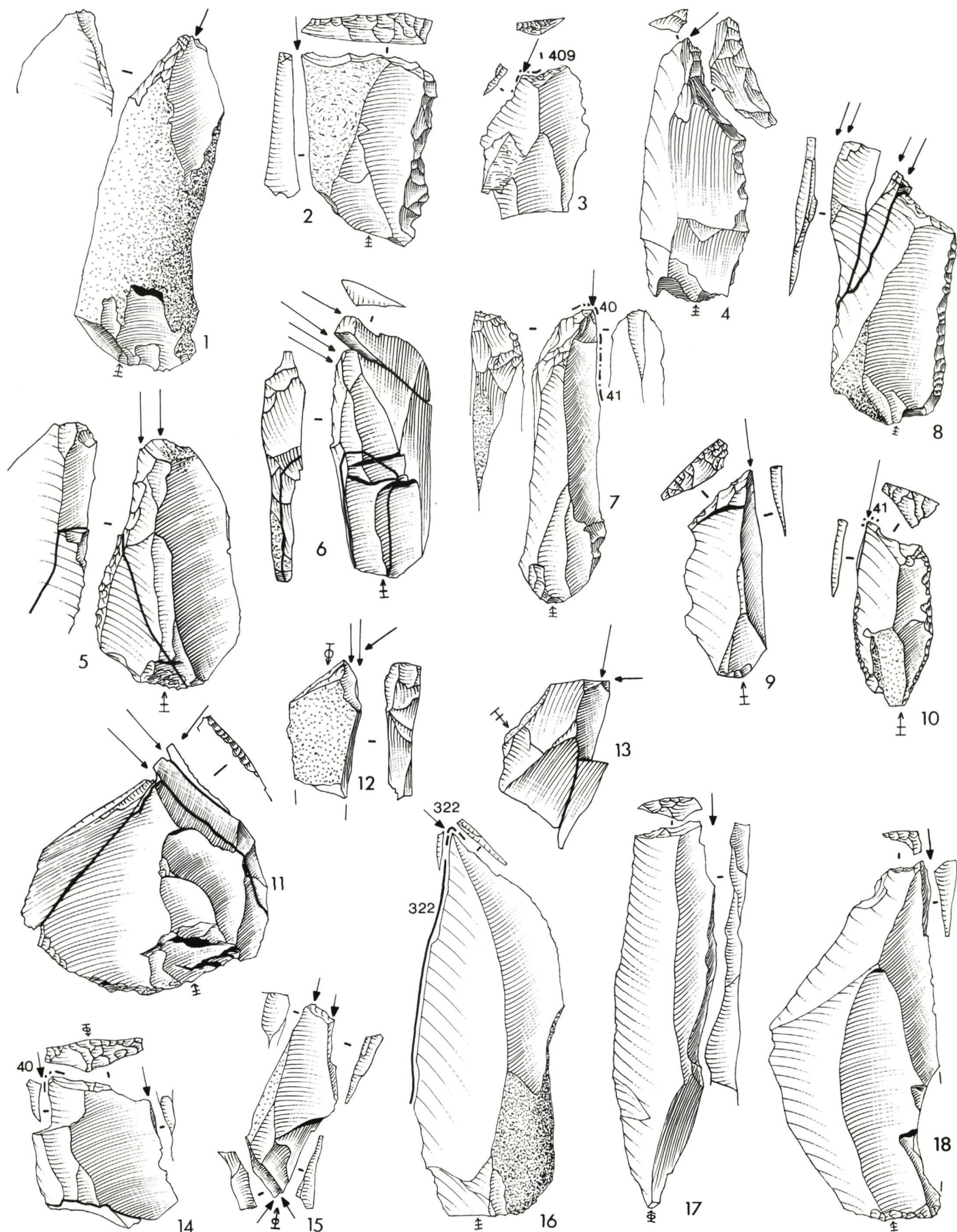
Pl. 85 *Burins from Rekem 10 (1-18), and Rekem 11 (19-21). 1: transverse burin on retouched edge; 2-6: atypical Lacan burins; 7-13: dihedral burins; 14-18: multiple burins; 19: on broken end; 20-21: on truncation.*



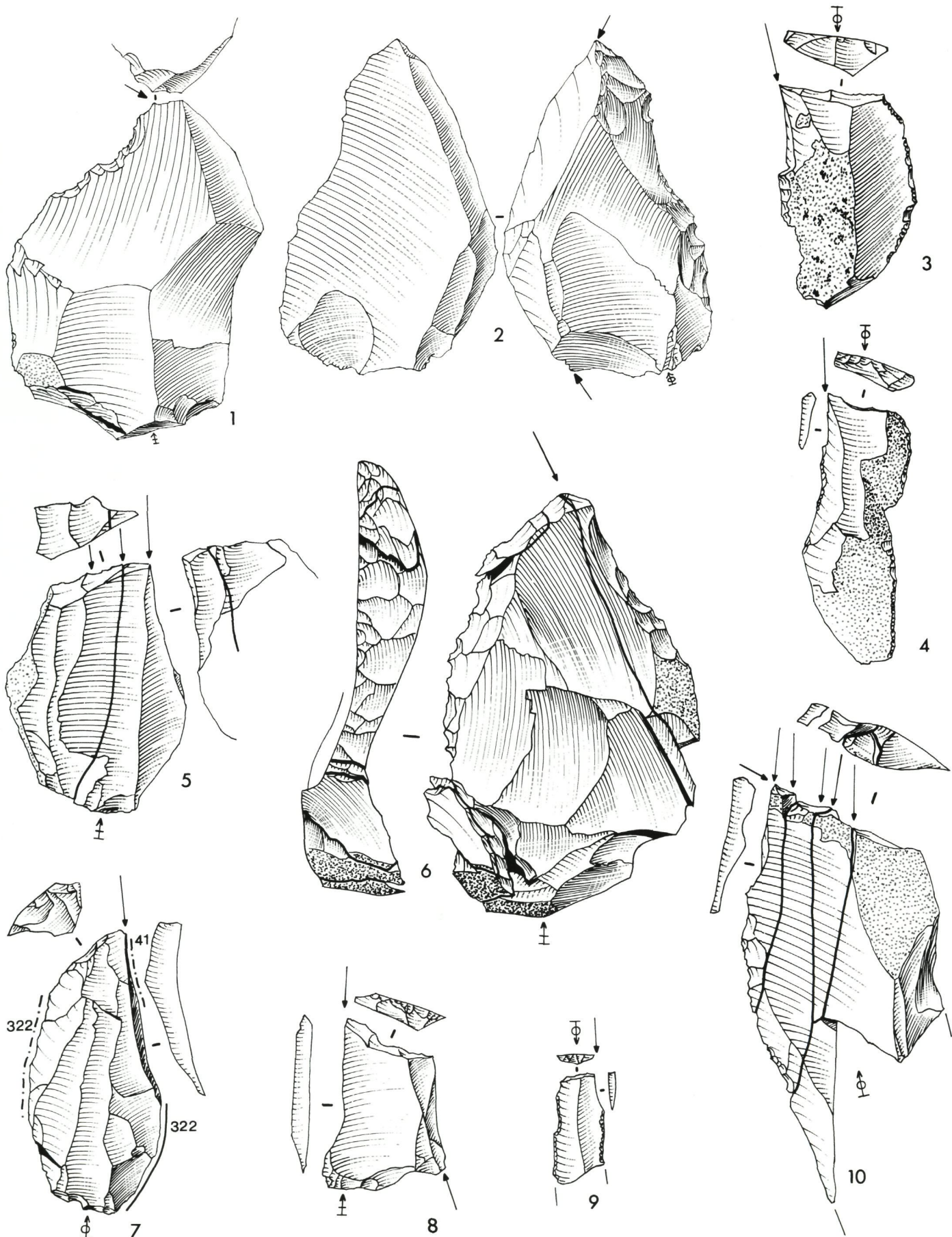
Pl. 86 Burins from Rekem 11. 1, 3: on truncation; 2, 4-6: atypical Lacan burins; 7-8, 15: dibedral burins; 9-14, 16-17: multiple burins.



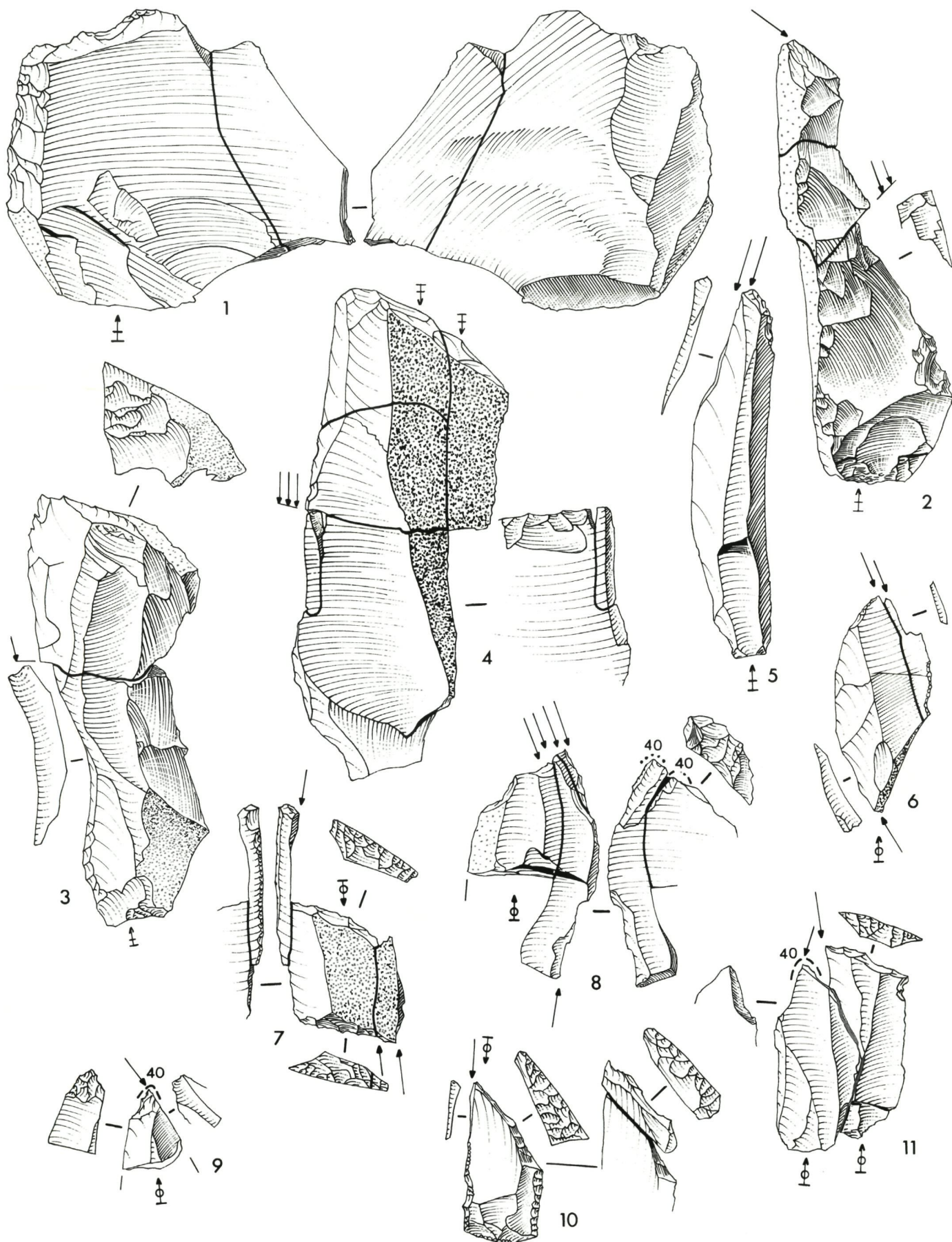
Pl. 87 Burins from Rekem 12 (1-13), and Rekem 14 (14-18). 1: on unmodified end; 2-5, 17-18: on truncation; 6: transverse burin on retouched edge; 7-10: atypical Lacan burins; 11-13: dihedral burins; 14-15: multiple burins; 16: transverse burin on unmodified edge.



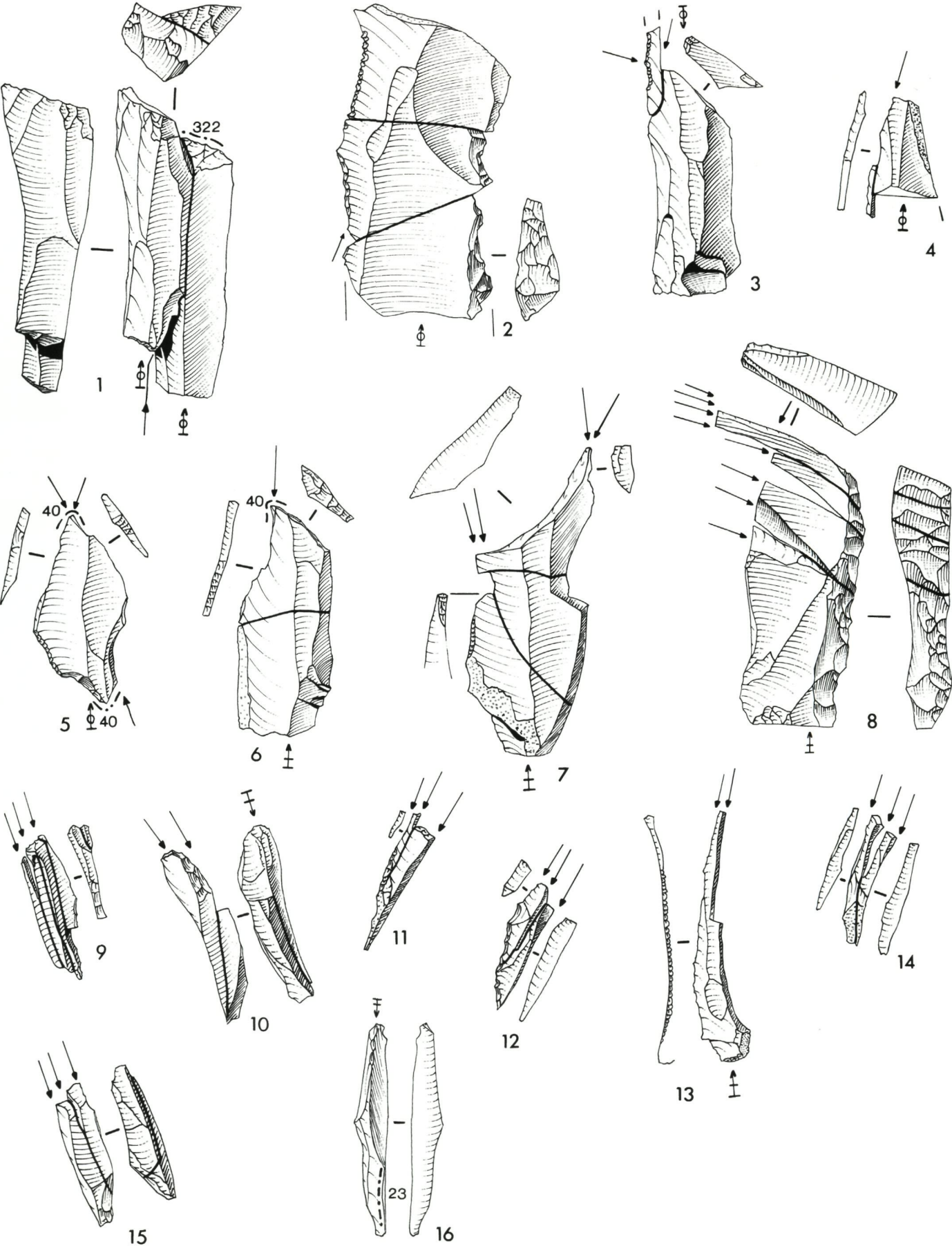
Pl. 88 Burins from Rekem 14 (1-2), Rekem 15 (3-4), and Rekem 16 (5-10). 1, 5-8: on truncation; 2: multiple burin; 3-4, 9: atypical Lacan burins; 10: dihedral burin.



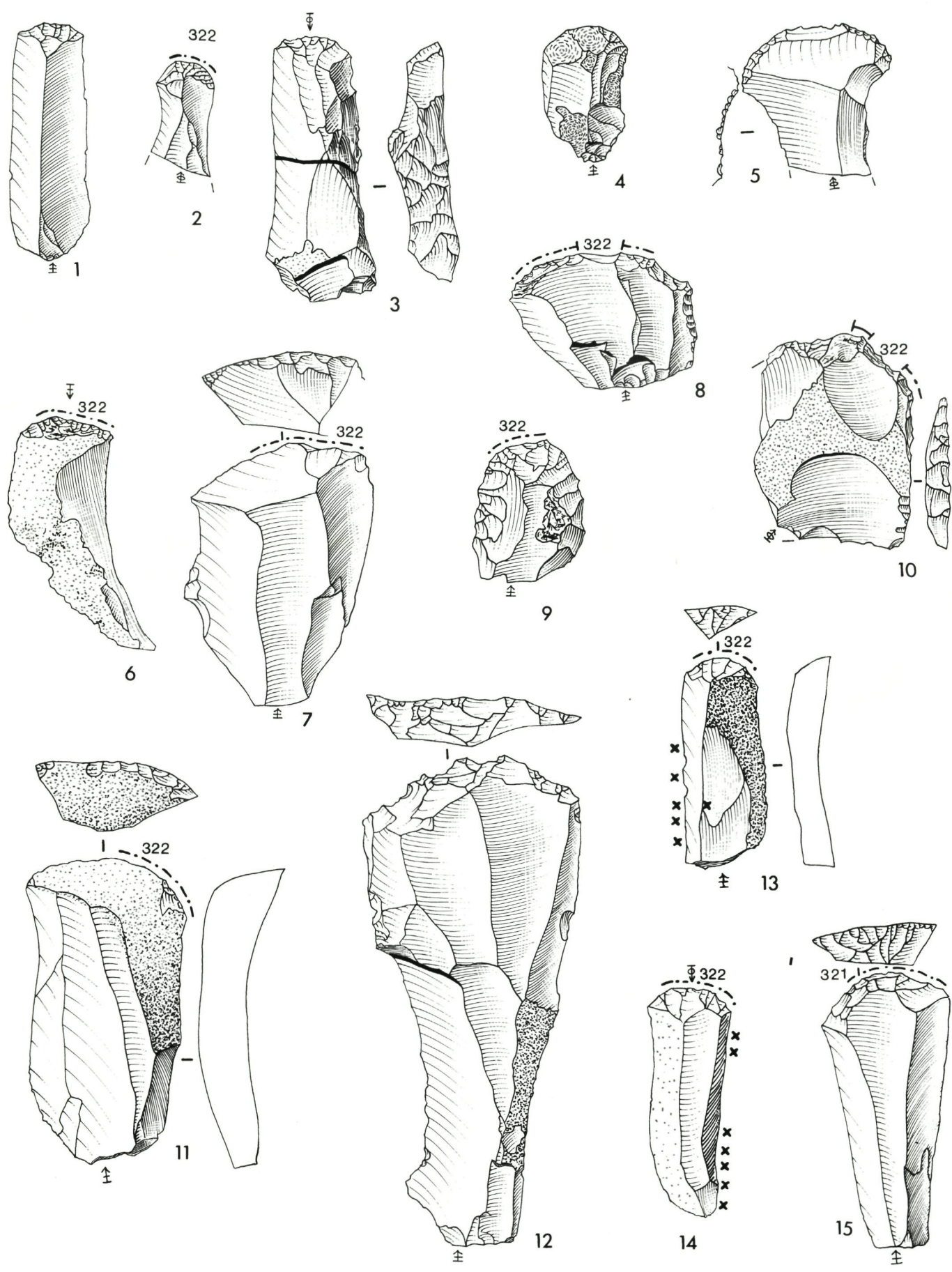
Pl. 89 Burins from Rekem 1 (1, 3), Rekem 5 (2, 4-5), and Rekem 6 (6-11). 1, 5, 8-9: on truncation; 2: break refit showing evolution of burin on unmodified end to burin on break; 3-4: on break; 6-7: multiple burins; 10: atypical Lacan burin; 11: debitage refit of two burins on truncation.



Pl. 90 Burins and burin spalls from *Rekem* 10 (1-7, 13), *Rekem* 11 (8), *Rekem* 5 (9-12), *Rekem* 6 (14-15), and *Rekem* 12 (16). 1, 4, 6: on truncation; 2, 7: on break; 3, 8: dibedral burins; 5: multiple burin; 9-15: refitting burin spalls; 16: burin spall used on hard, non-woody plants.



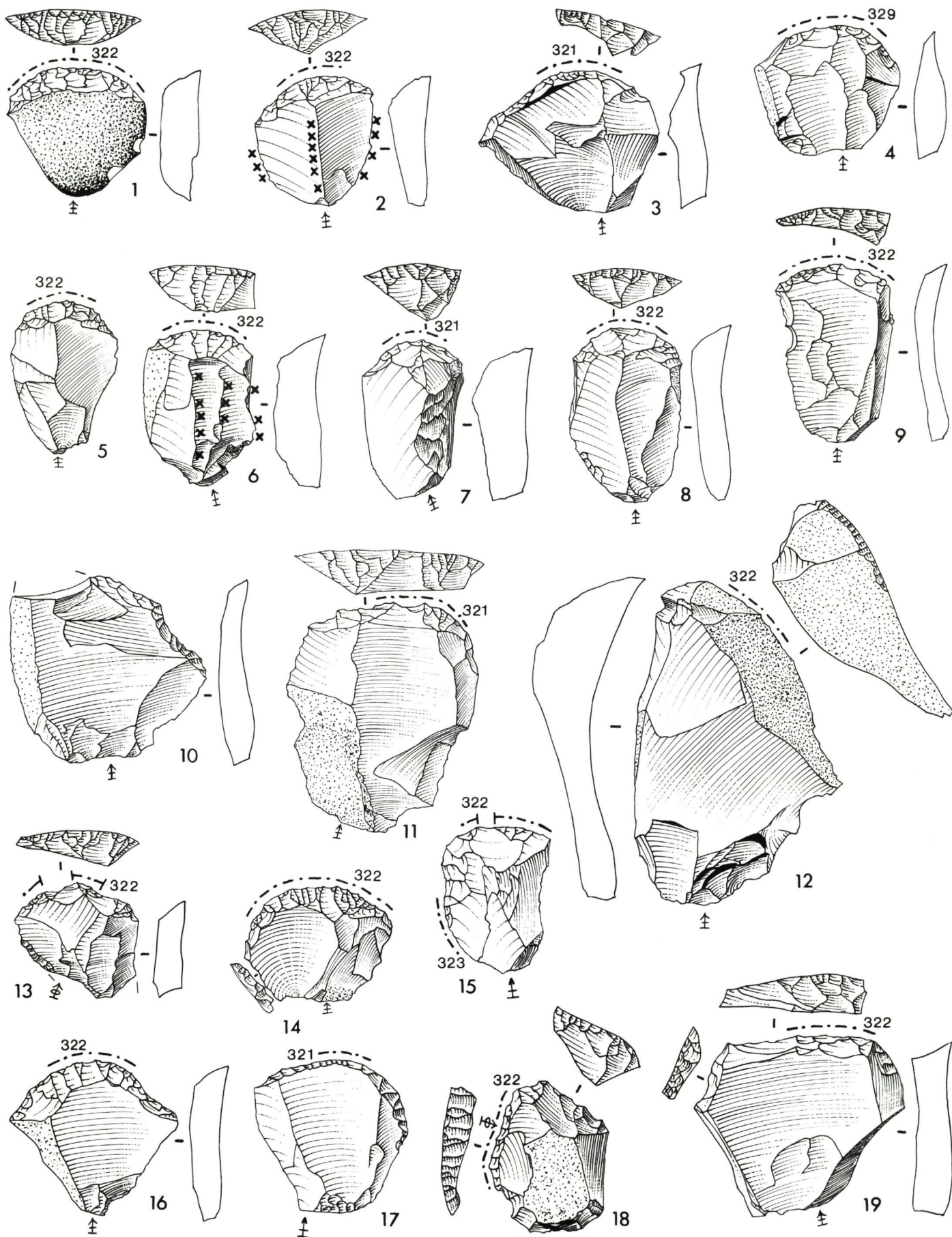
Pl. 91 Scrapers from Rekem 1 (1-10), Rekem 2 (11-12), and Rekem 5 (13-15). 1-3, 12-15: endscrapers on blade; 4-11: endscrapers on flake.



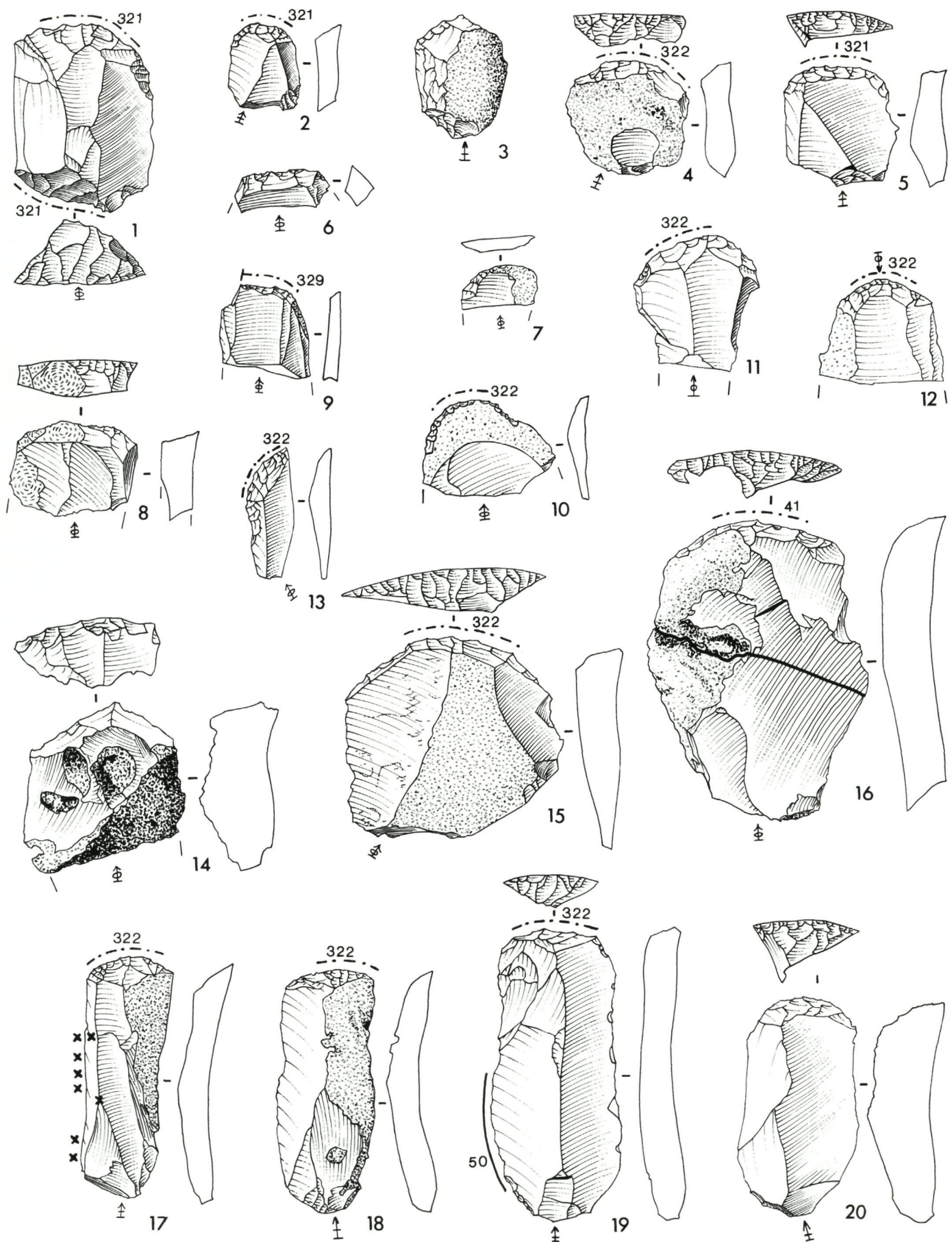
Pl. 92 Scrapers from Rekem 5. 1-13: endscrapers on blade; 14-15: endscrapers on flake.



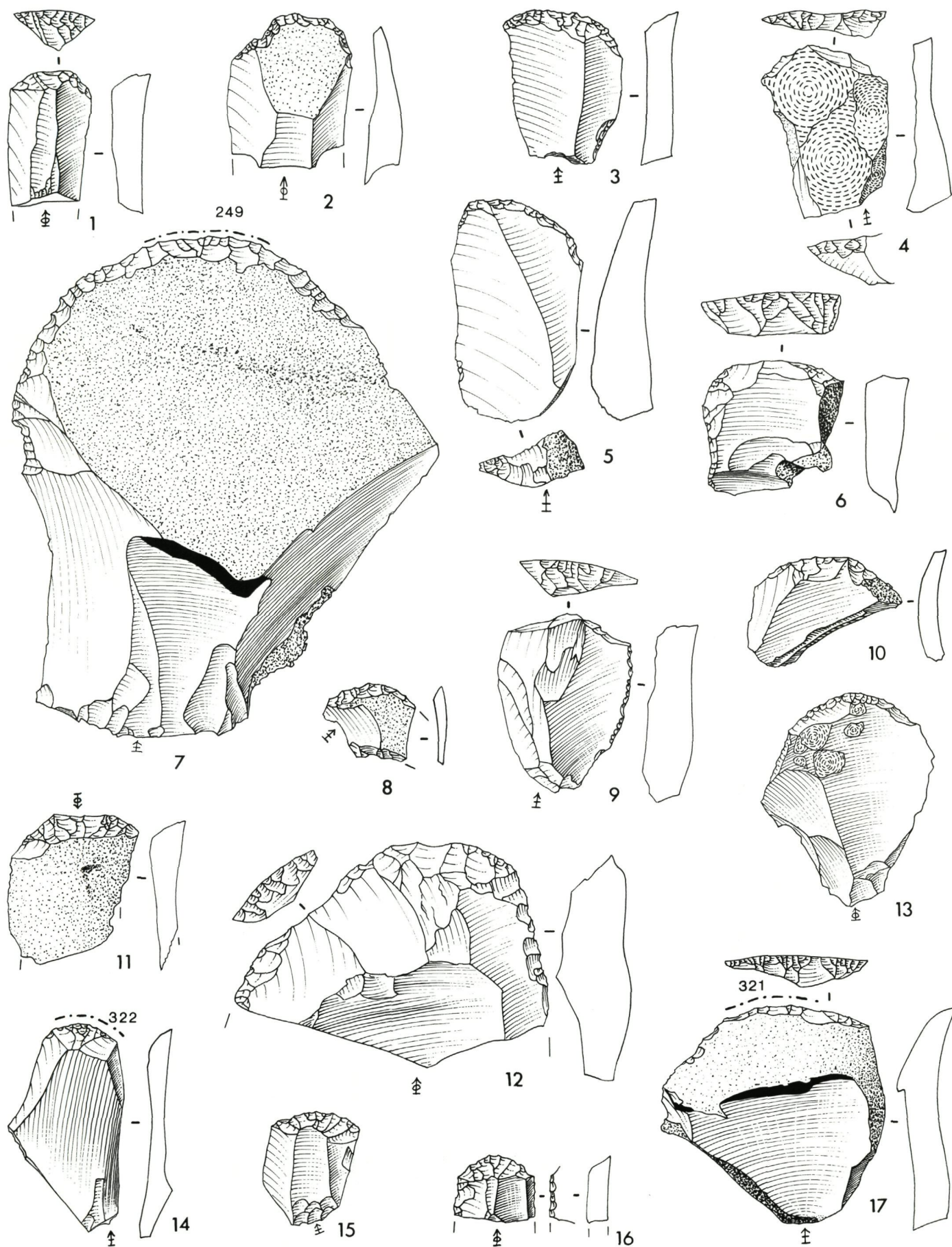
Pl. 93 Scrapers from Rekem 5. 1-19: endscrapers on flake.



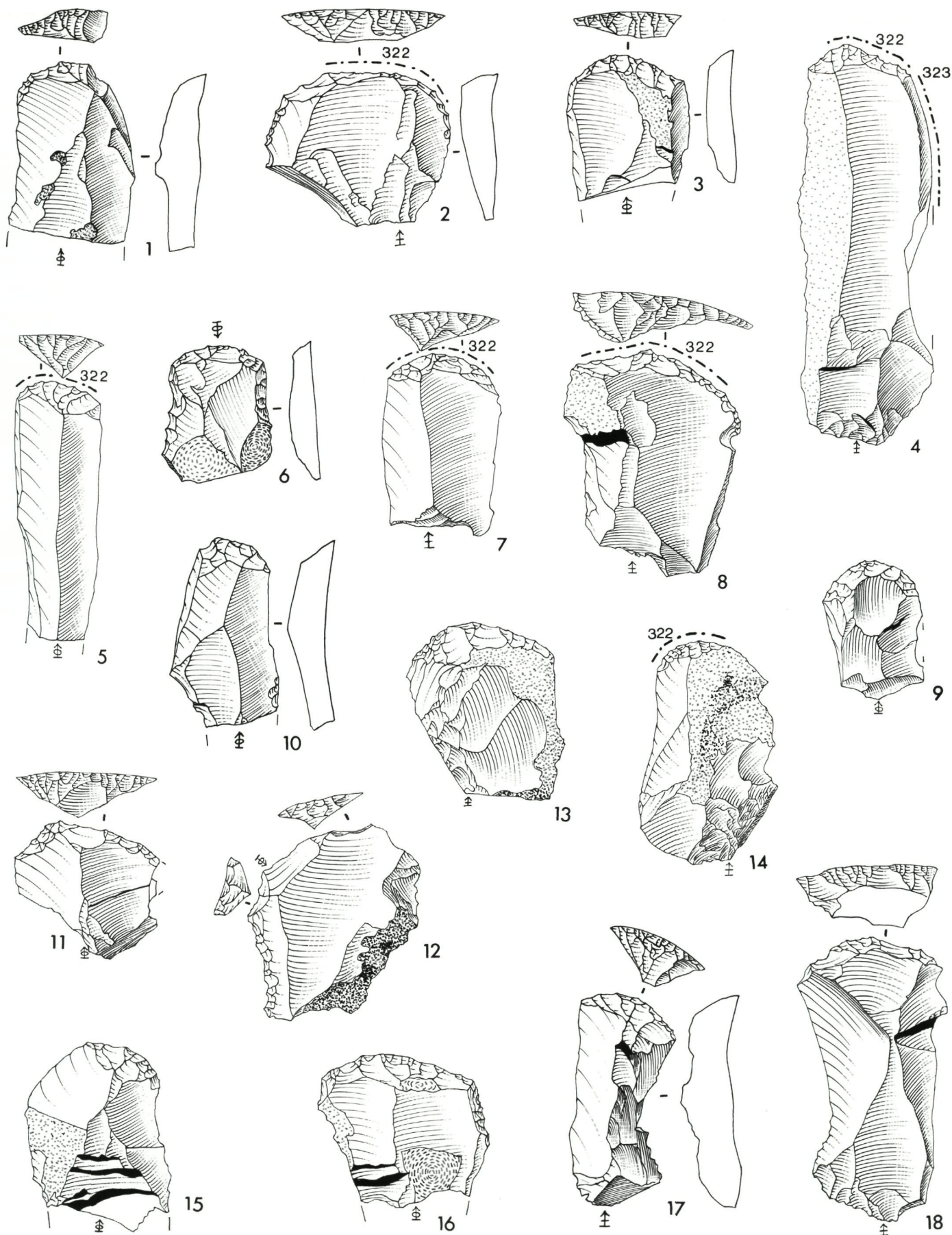
Pl. 94 Scrapers from *Rekem 5* (1-16), and *Rekem 6* (17-20). 1: double endscraper on flake; 2-5: thumbnail-scrapers; 6-16: endscrapers on flake; 17-20: endscrapers on blade.



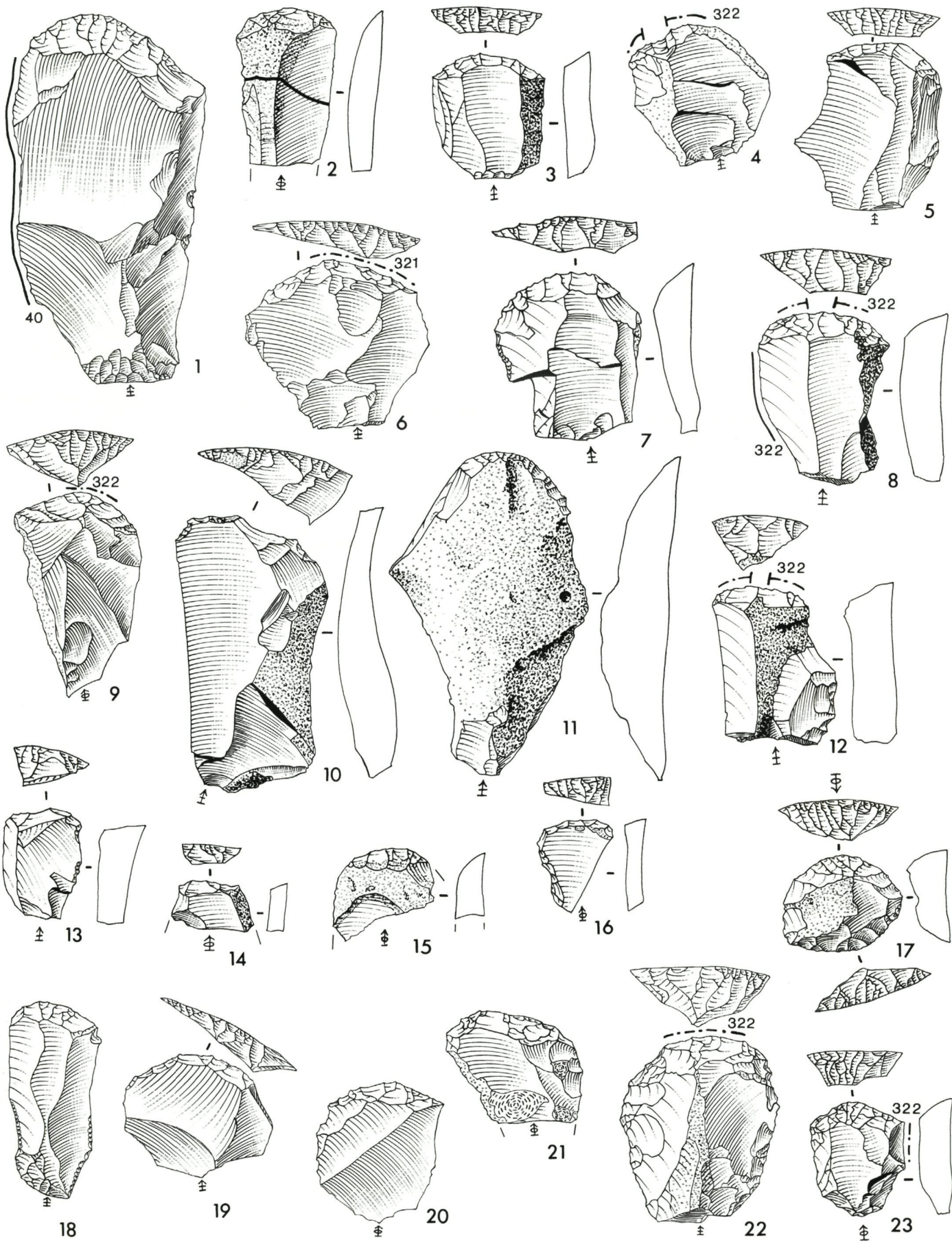
Pl. 95 Scrapers from Rekem 6 (1-12), and Rekem 7 (13-17). 1-2: endscrapers on blade; 3-7, 9-14, 16-17: endscrapers on flake; 8, 15: thumbnail-scrapers.



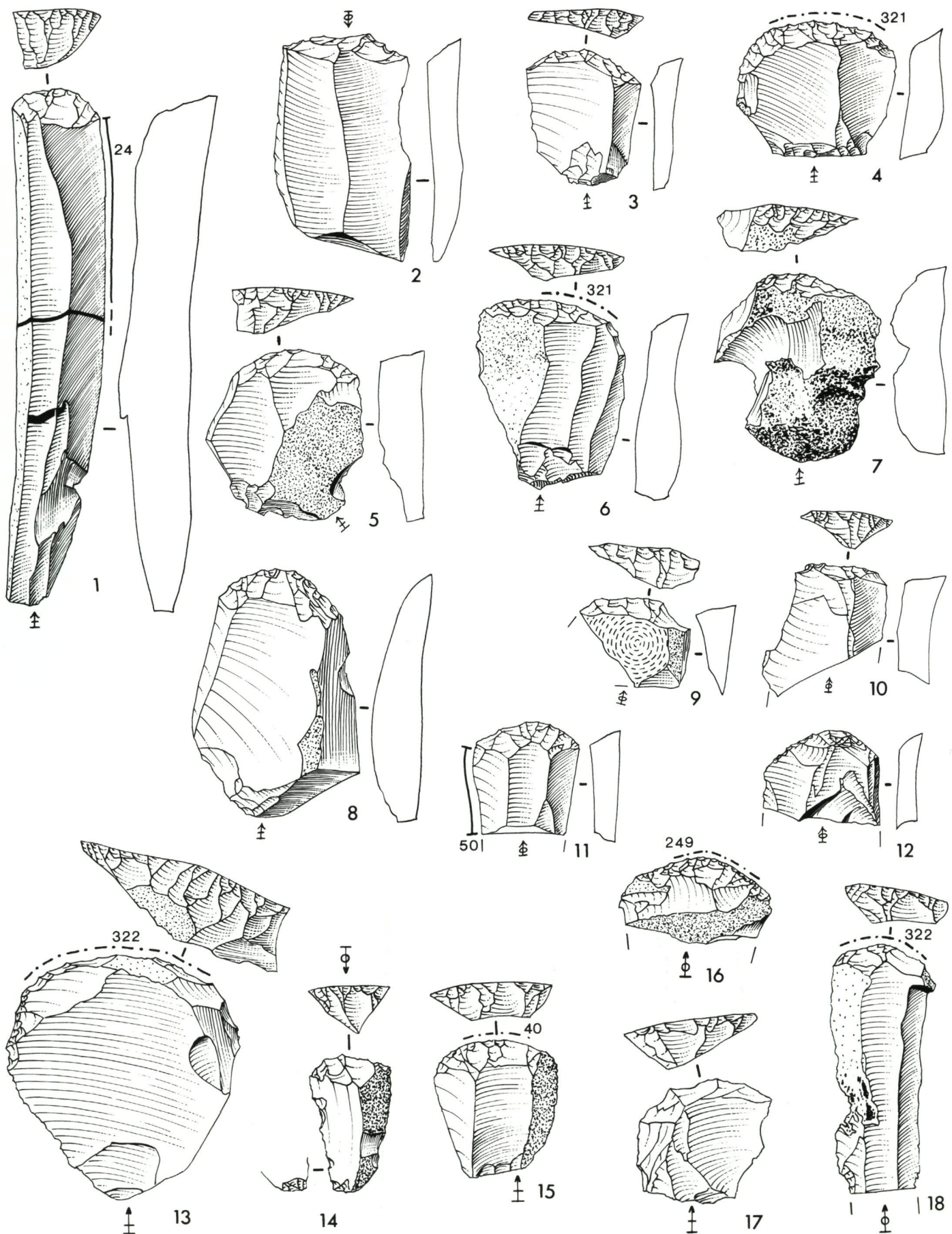
Pl. 96 Scrapers from Rekem 8 (1-3), Rekem 10 (4-9), Rekem 11 (10-16), and Rekem 12 (17-18). 1, 4-5, 10, 17-18: endscrapers on blade; 2-3, 7-9, 11-16: endscrapers on flake; 6: endscraper on blade with lateral retouch.



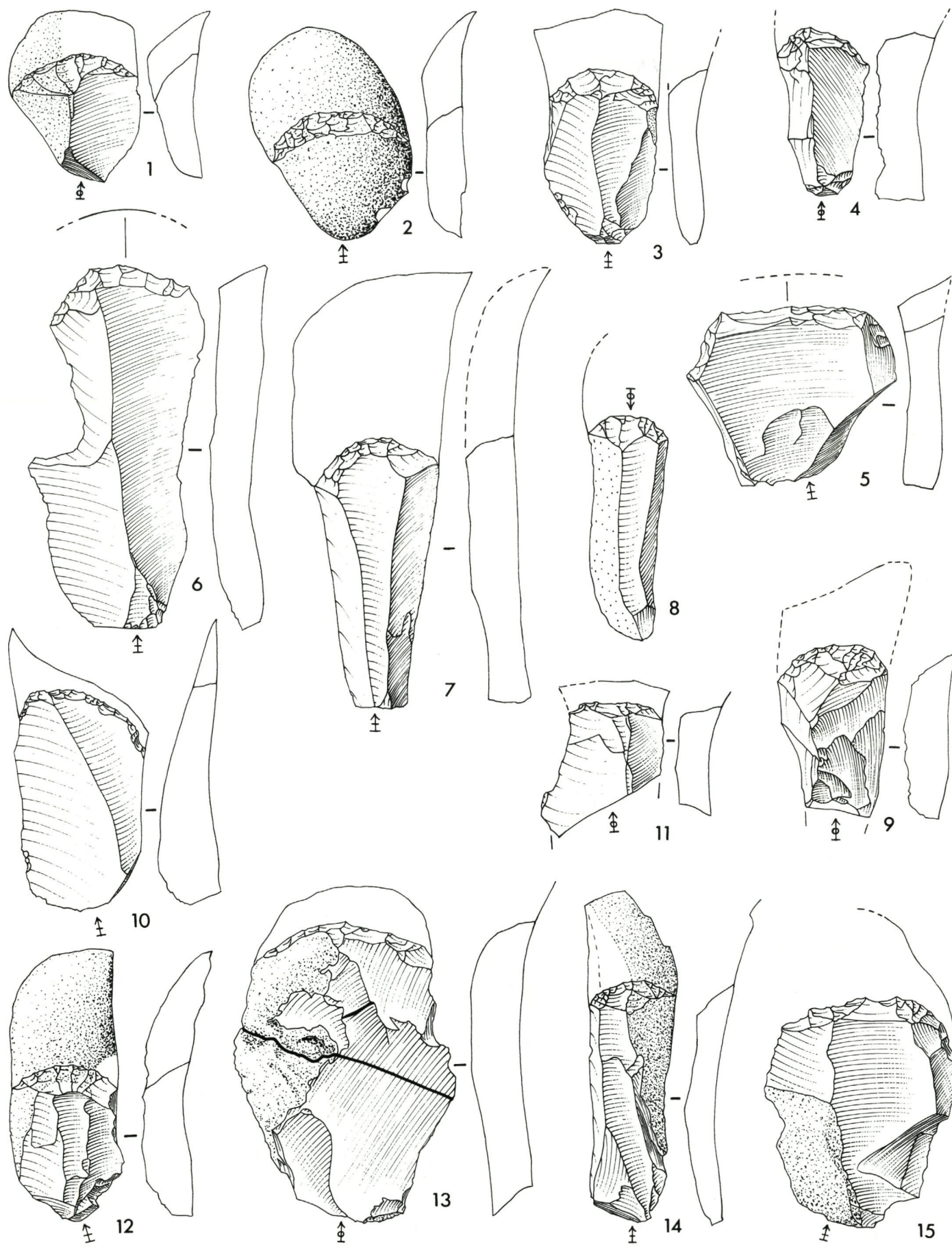
Pl. 97 Scrapers from *Rekem* 12 (1-17), and *Rekem* 14 (18-23). 1-2: endscrapers on blade; 3-12, 14-16, 19-22: endscrapers on flake; 13, 23: thumb-nail-scraper; 17: double thumb-nail-scraper; 18: endscraper on blade with lateral retouch.



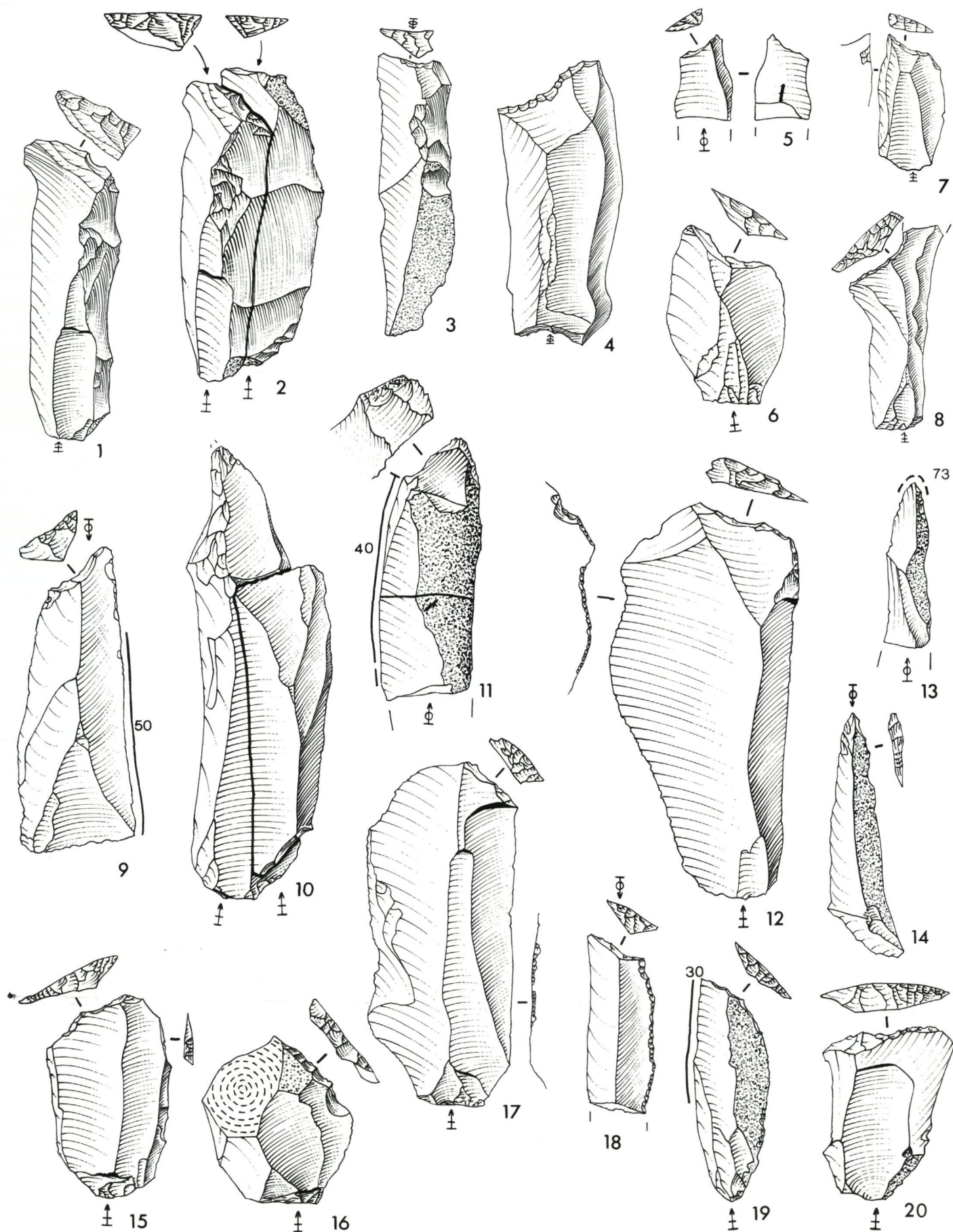
Pl. 98 Scrapers from Rekem 16 (1-12), and Rekem 6 (13-18). 1-2, 18: endscrapers on blade; 3-17: endscrapers on flake.



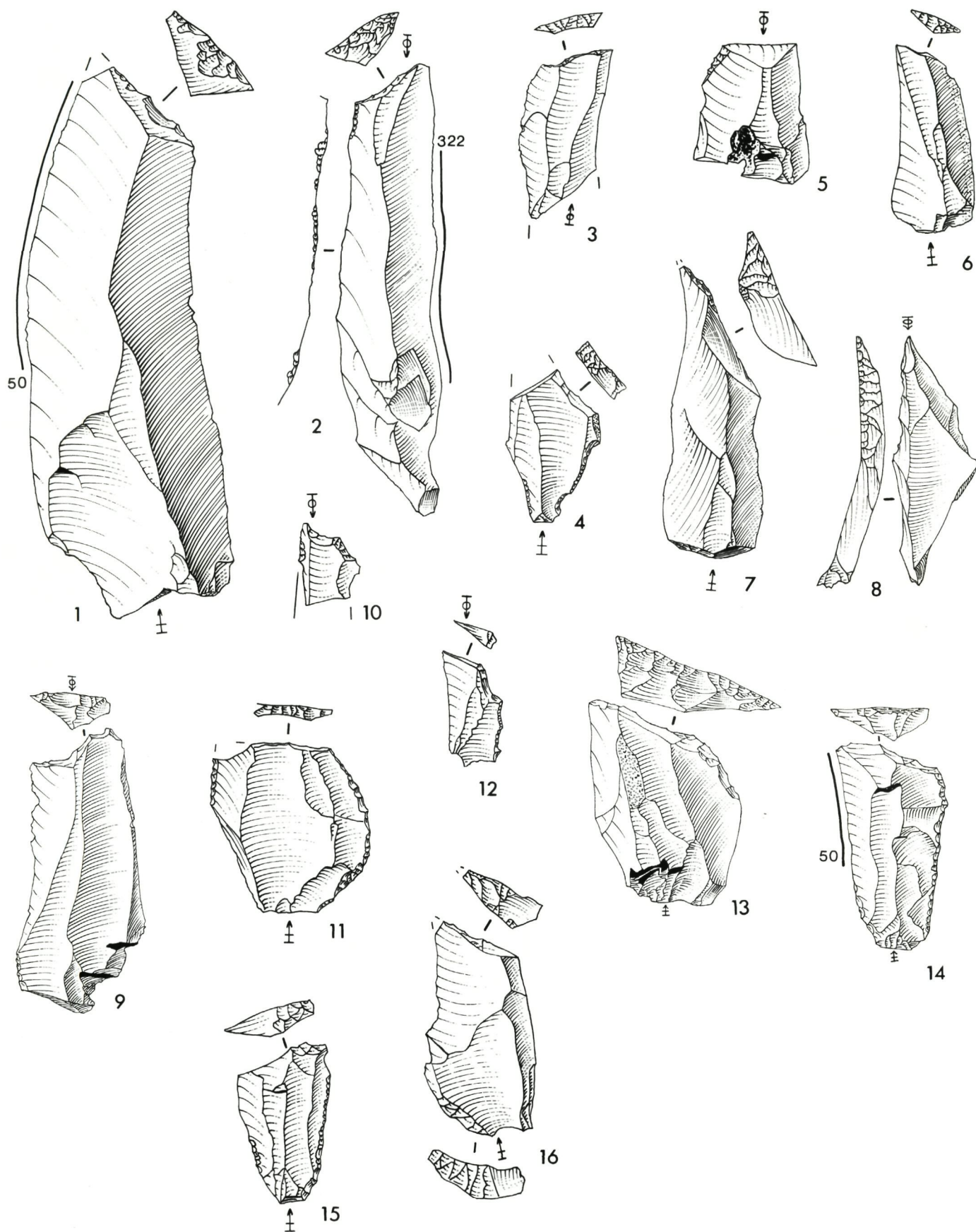
Pl. 99 *Refitted scrapers from Rekem. Reconstructed outlines of original blanks.*



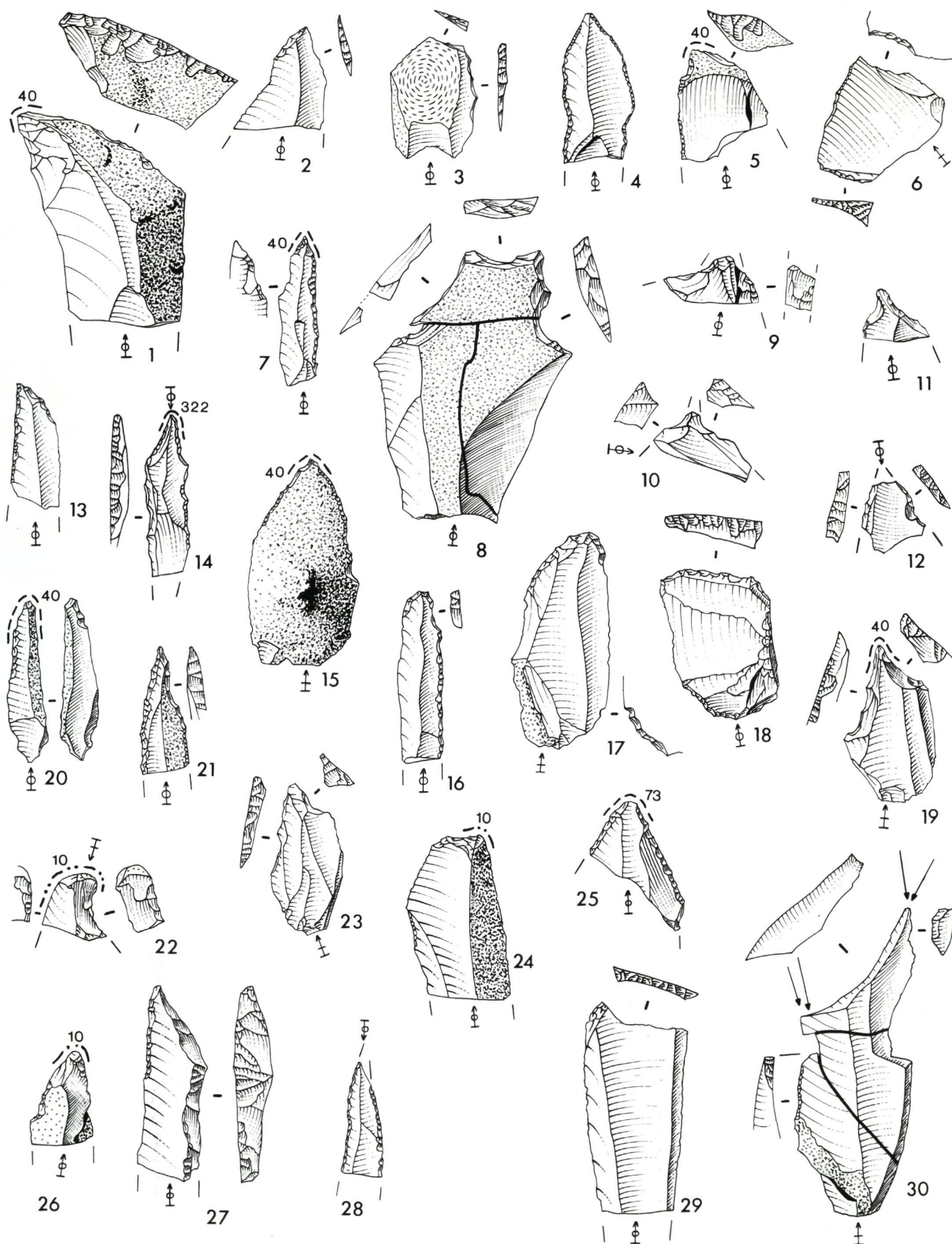
Pl. 100 *Truncated tools from Rekem 1 (1-6), Rekem 4 (7-8), Rekem 5 (9-14), and Rekem 6 (15-20). 1, 3, 5-15, 17-19: blades with oblique truncation; 20: blade with transverse truncation; 2: blade with two oblique truncations; 4: blade with oblique and transverse truncation; 16: flake with oblique truncation.*



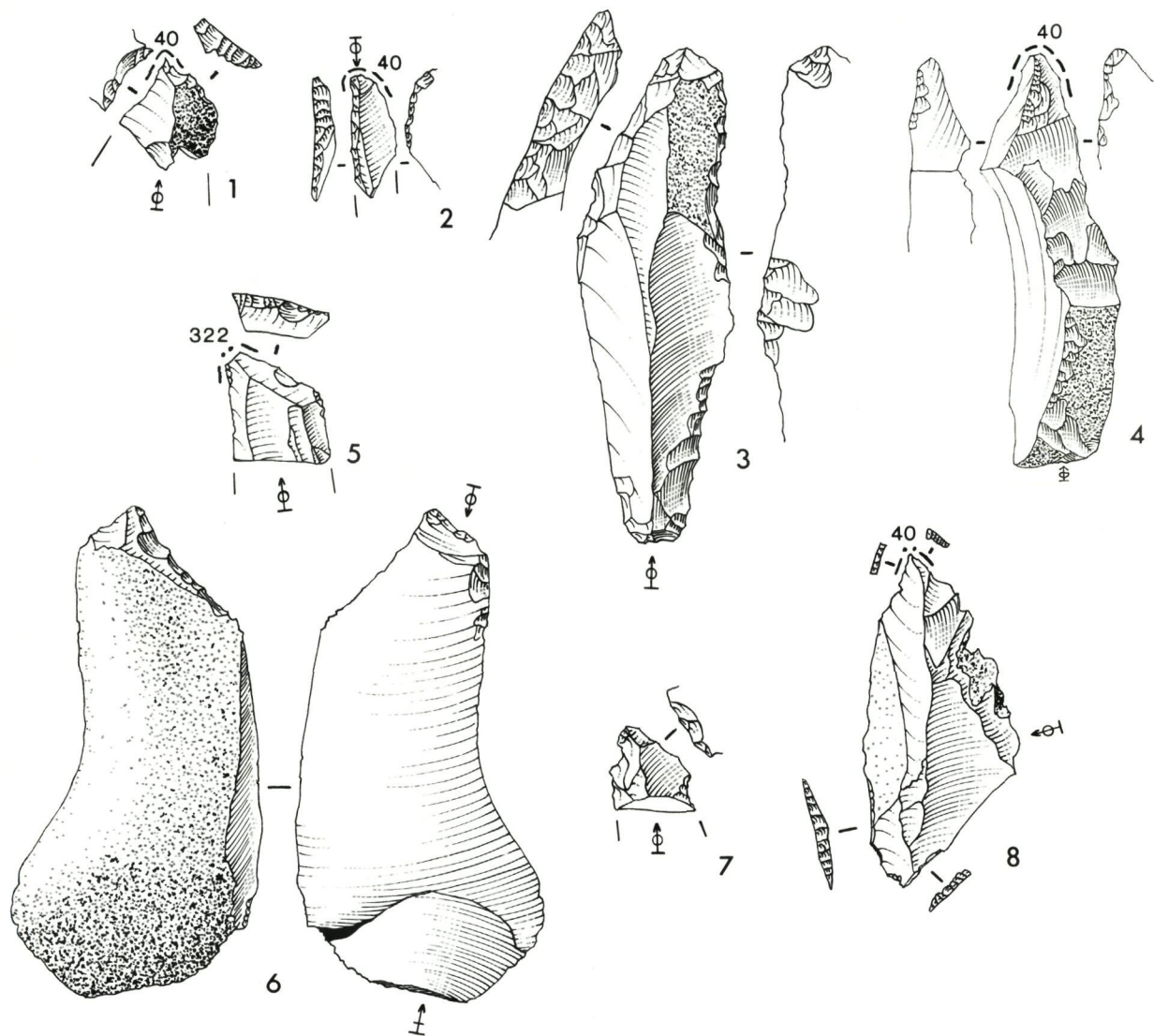
Pl. 101 *Truncated tools from Rekem 6 (1-4), Rekem 7 (5-8), Rekem 10 (9-10), Rekem 12 (11), Rekem 14 (12-14), and Rekem 16 (15-16). 1-3, 5-7, 9-10, 12-14, 16: blades with oblique truncation; 15: blade with transverse truncation; 11: flake with transverse truncation; 4, 8: flakes with oblique truncation.*



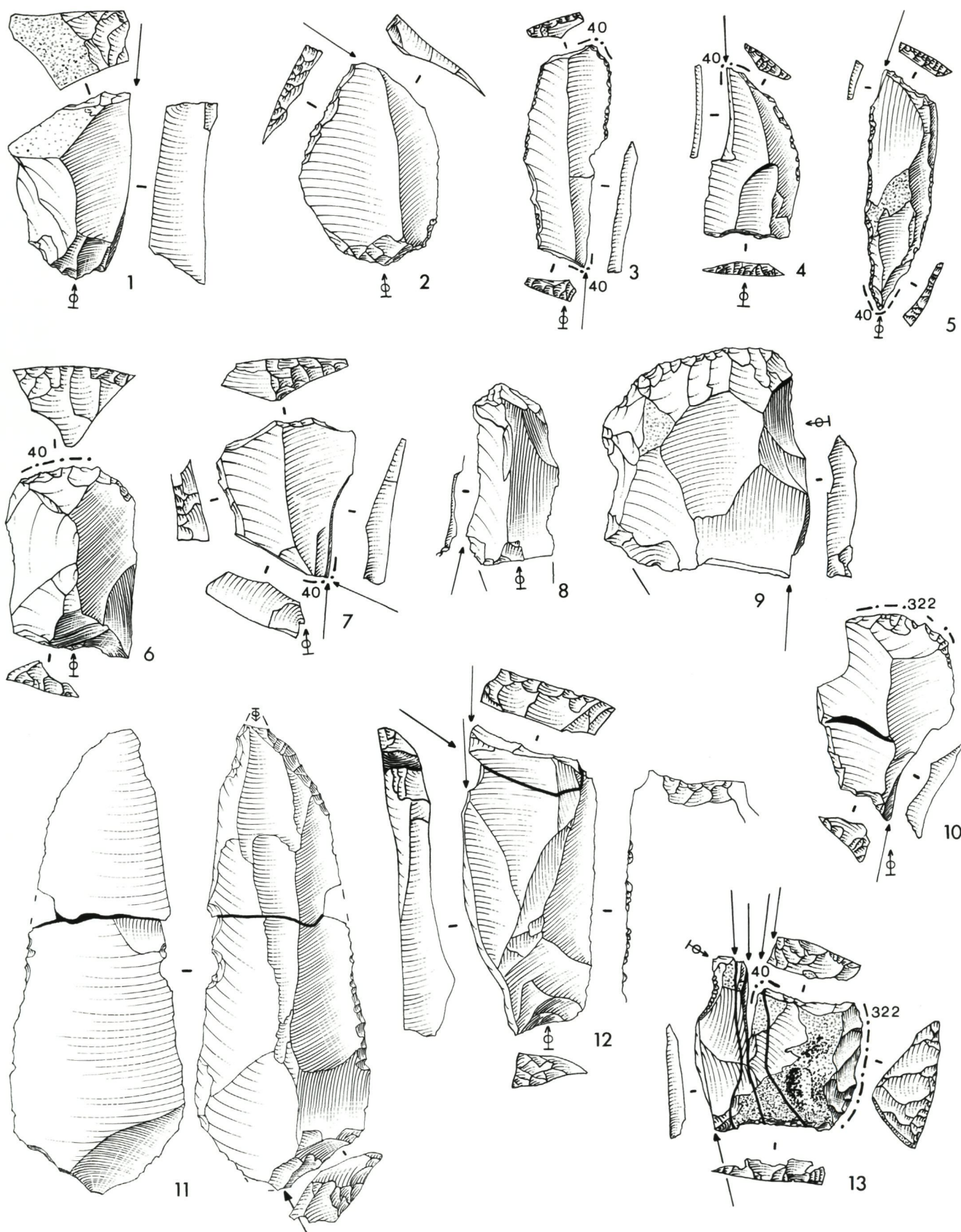
Pl. 102 *Becs, borers & reamers from Rekem 5 (1-14), Rekem 6 (15-22), and Rekem 10 (23-30). 1-5, 15-18, 23, 24, 30: simple becs; 25-26: 'drill' fragments of becs; 13-14, 19-21, 27: simple borers; 8-12, 28: drill fragments of borers; 6-7, 29: simple reamers; 22: 'drill' fragment of reamer.*



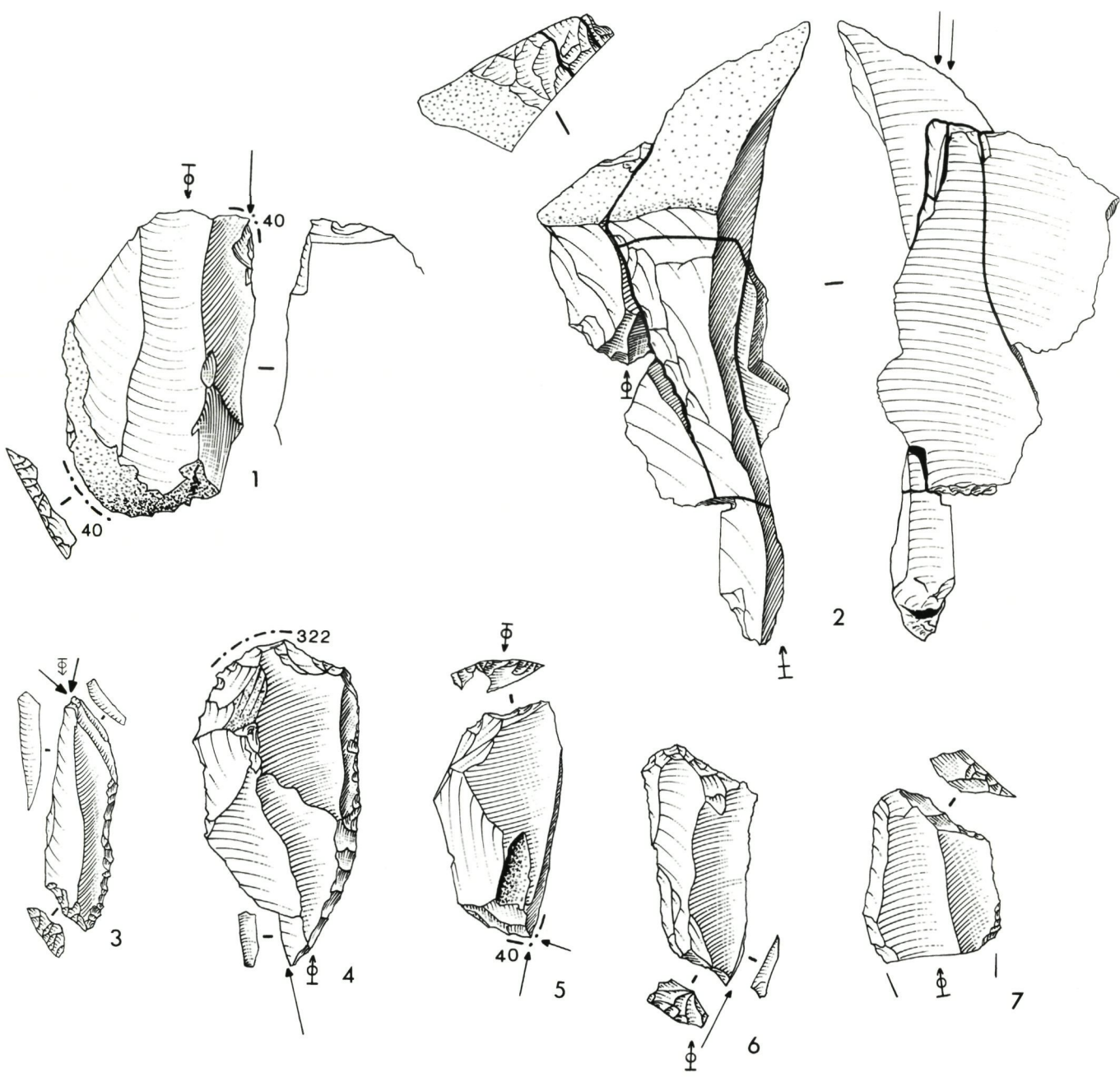
Pl. 103 *Becs, borers & reamers from Rekem 11 (1), Rekem 12 (2-3), Rekem 14 (4), Rekem 16 (5-6), and Rekem 10 (7-8). 1-2, 7: 'drill' fragments of reamers; 3, 8: double becs; 4, 6: simple reamer; 5: simple bec.*



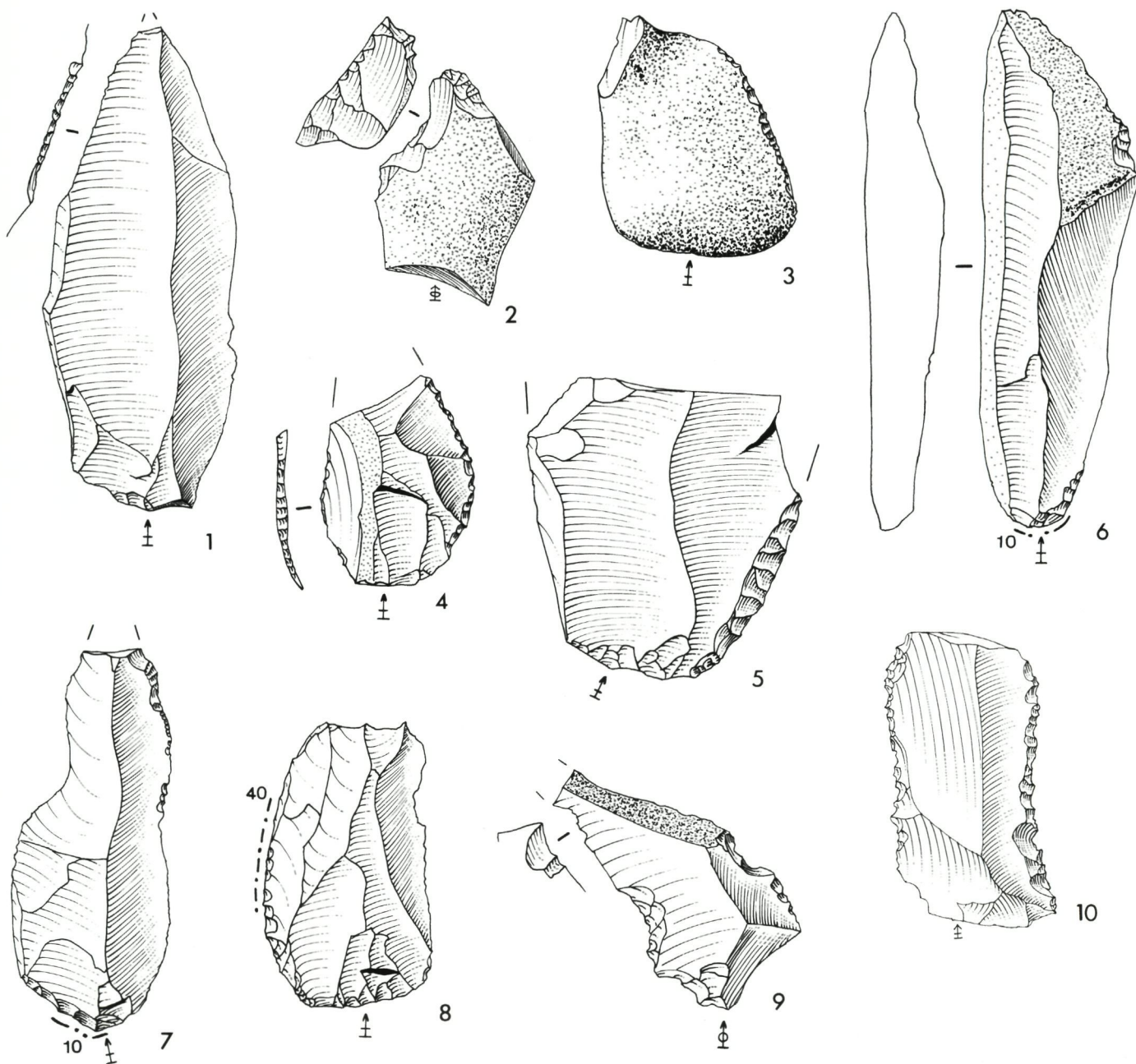
Pl. 104 Composite tools from *Rekem* 1 (1), *Rekem* 5 (2-5), *Rekem* 6 (6-8), *Rekem* 7 (9), *Rekem* 10 (10-12), and *Rekem* 11 (13). 2, 7-10, 13: burin-scraper; 3, 5, 11: burin-borer/ bec; 1, 4, 12: burin-truncation; 6: scraper-truncation.



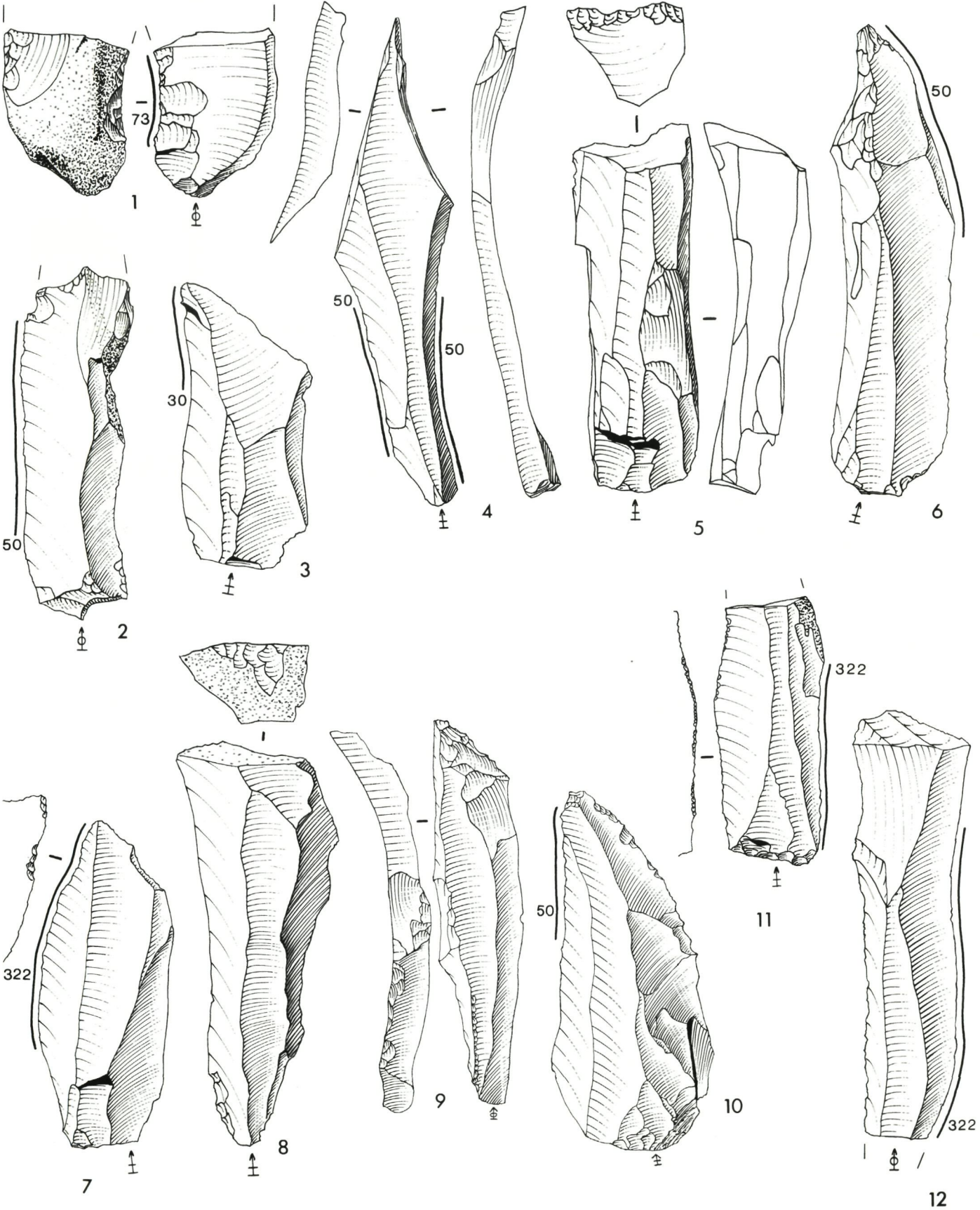
Pl. 105 Composite tools from *Rekem* 5 (1), *Rekem* 1 (2), *Rekem* 10 (3), *Rekem* 12 (4), *Rekem* 14 (5-6), and *Rekem* 16 (7). 1, 4, 6: burin-scraper; 2: burin-truncation, refitting with burin spalls and debitage waste; 3: burin-borer/bec; 5: burin-truncation; 7: scraper-truncation.



Pl. 106 Randomly retouched tools from Rekem 1 (1), Rekem 2 (2), Rekem 5 (3-5), Rekem 6 (6-8), Rekem 10 (9), and Rekem 11 (10). 1, 4, 6-7: blade with random edge-retouch; 2-3, 5, 8-10: flake with random edge-retouch.



Pl. 107 *Edge-damaged pieces from Rekem 1 (1), Rekem 5 (2-6), Rekem 6 (7-8), Rekem 10 (9), Rekem 12 (10-11), and Rekem 16 (12). 3, 5, 7: 'use retouch' (scars possibly provoked by utilisation); 1: piece with one or several notches; 11: piece with a short series of tiny edge-scars; 2, 4, 8-10: 'spontaneous retouch' (provoked during debitage); 6, 12: recent damage (provoked during excavation or later).*



Pl. 108 *Shooting experiments (1-3).*

1



2

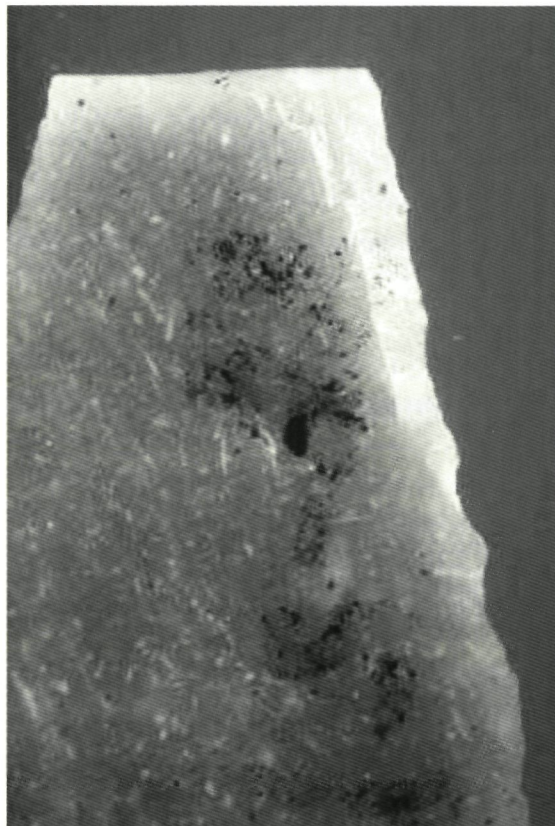


3

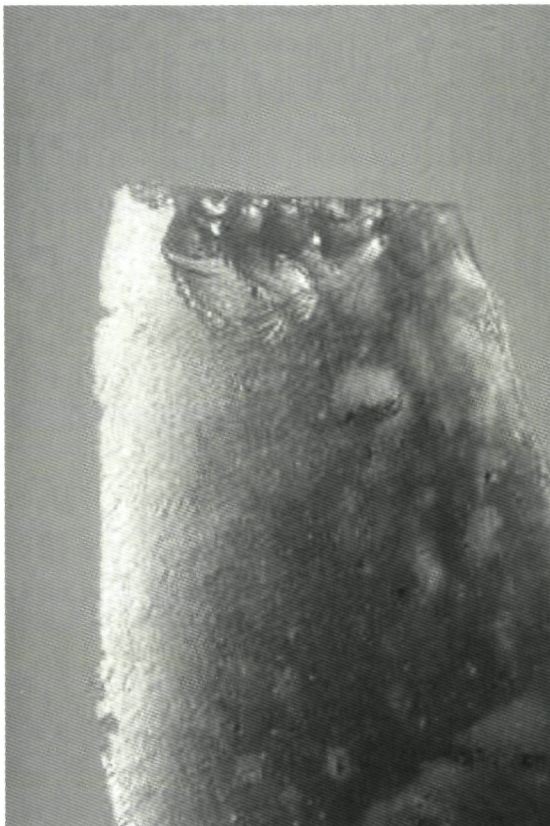


Pl. 109 *Macroscopic projectile damage on slender laterally modified laminar pieces from Rekem 5 (1), Rekem 1 (2, 4) & Rekem 6 (3). 1: burination (Pl. 70.13; $\times 12$); 2: "spin-offs" on bending fracture (Pl. 68.20; $\times 13$); 3: lateral cone-fractures (Pl. 71.5; $\times 11$); 4: step terminating bending fracture (Pl. 69.12; $\times 10$).*

1



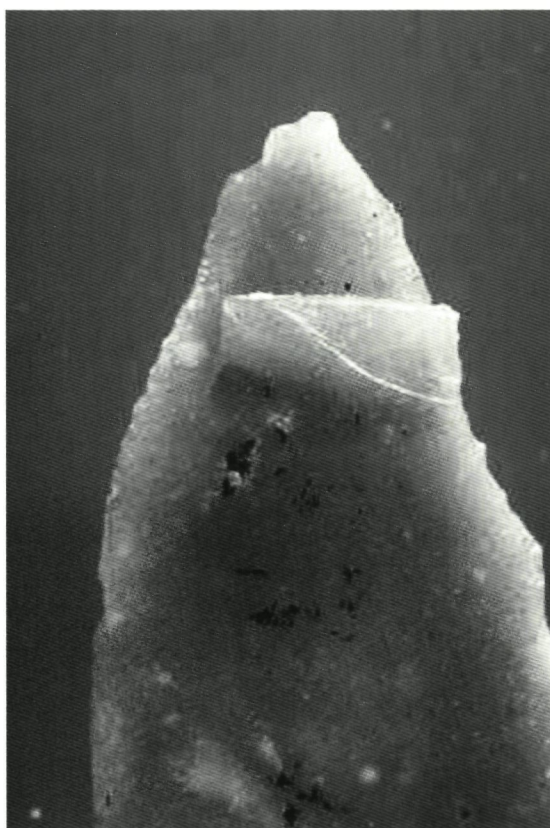
2



3



4



Pl. 110 *Macroscopic projectile damage, lateral grinding & microscopic linear impact traces on slender laterally modified laminar pieces from Rekem 5 (1-3, 6), Rekem 10 (4) & Rekem 6 (5). 1: burination and lateral cone fractures (Pl. 70.3; $\times 11$); 2: step terminating bending fracture on same piece ($\times 11$); 3: step terminating bending fracture (Pl. 70.5; $\times 12$); 4: lateral cone-fractures (Pl. 73.5; $\times 12$); 5: continuous series of small scars (Pl. 71.7; $\times 13$); 6: microscopic linear impact traces (Pl. 70.5; $\times 100$).*



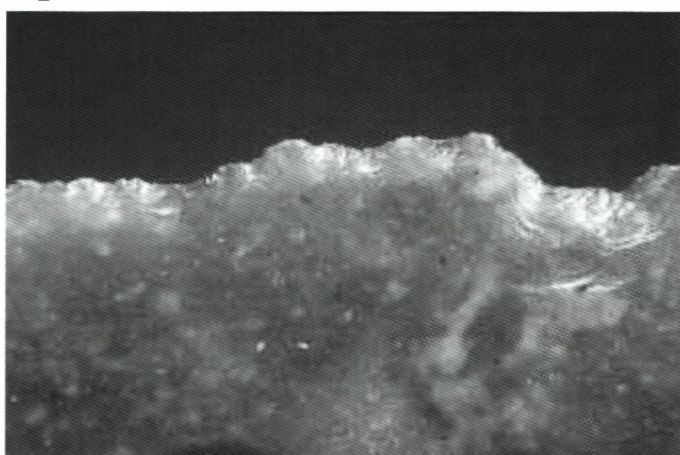
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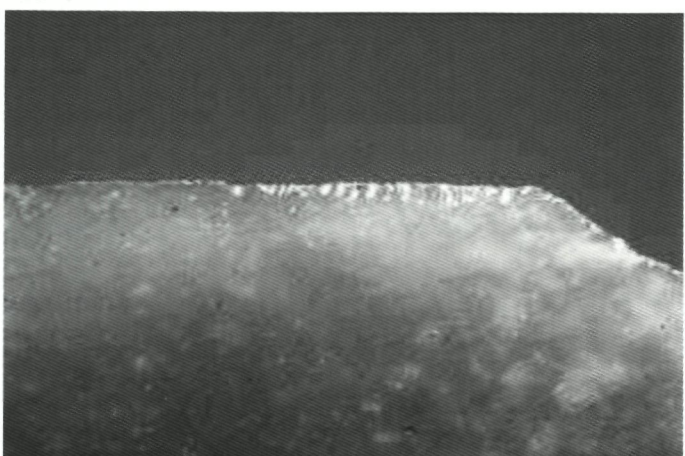
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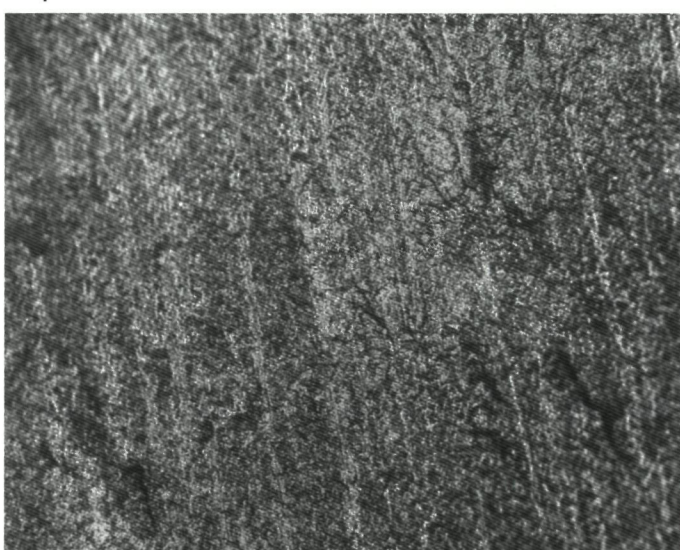
3



4

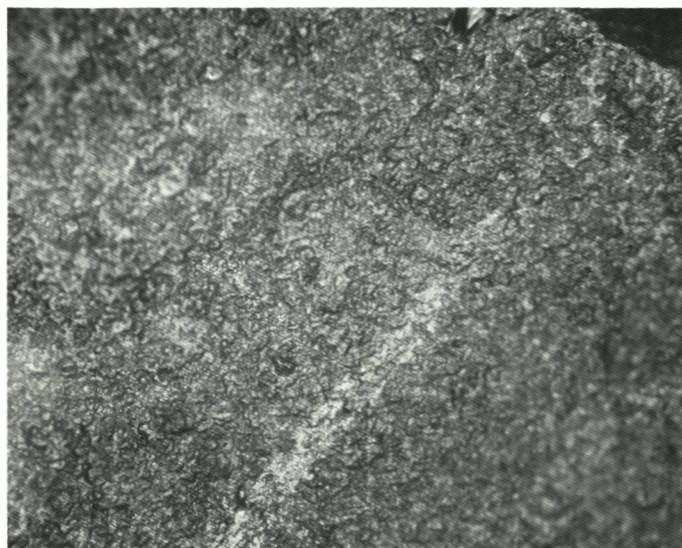


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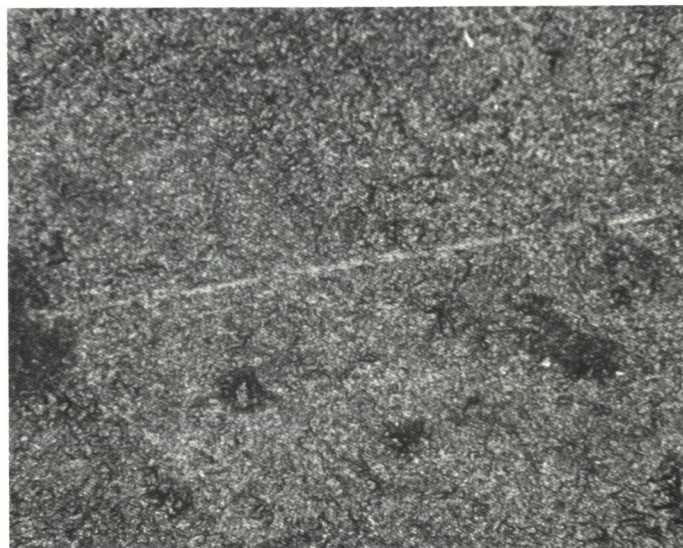


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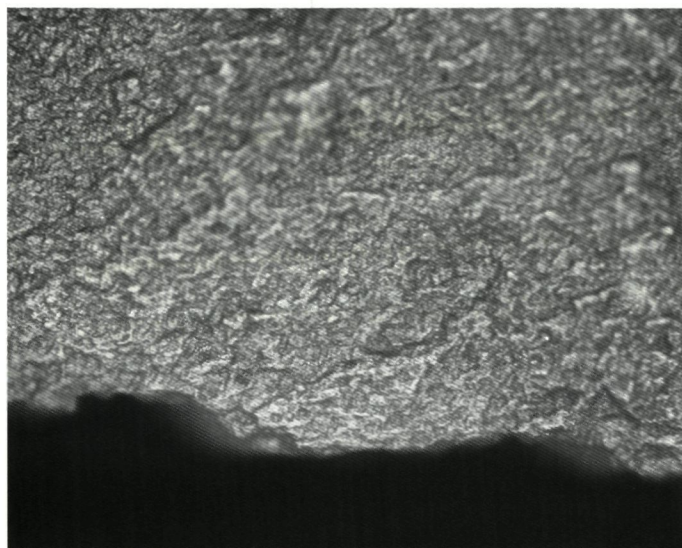
Pl. 111 Microscopic linear impact traces on slender laterally modified laminar pieces from Rekem 5 (1: Pl. 70.4 & 2: Pl. 69.19), butchering usewear on the dorsal face (3) and the ventral face (4) of a large laterally modified laminar piece from Rekem 5 (Pl. 70.16), and usewear of bone/antler graving on burins from Rekem 6 (5: Pl. 83.11; 6: Pl. 83.14). Scale $\times 200$.



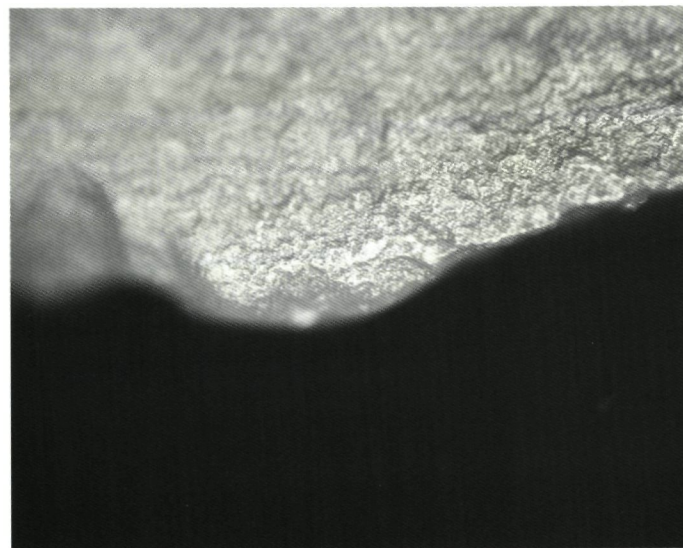
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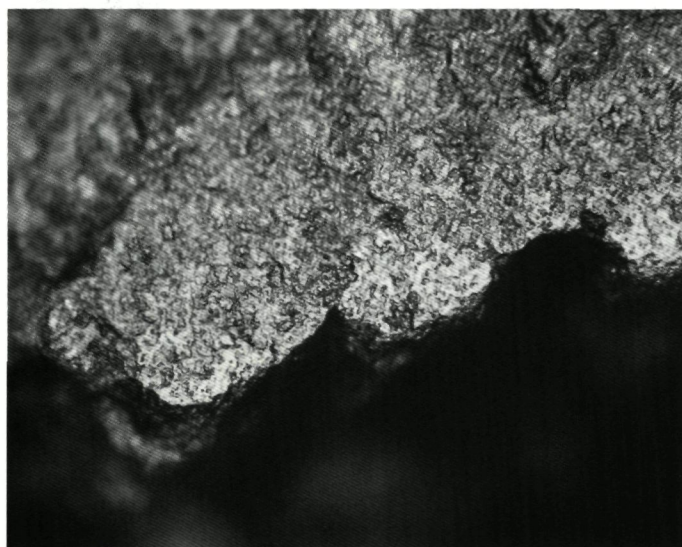
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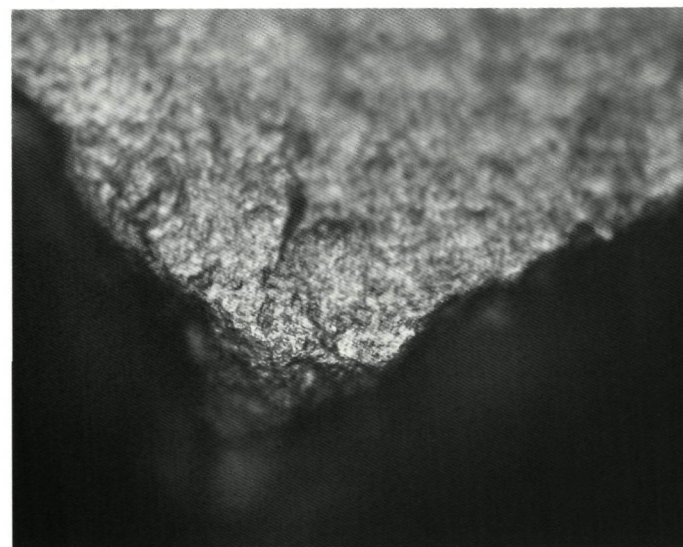
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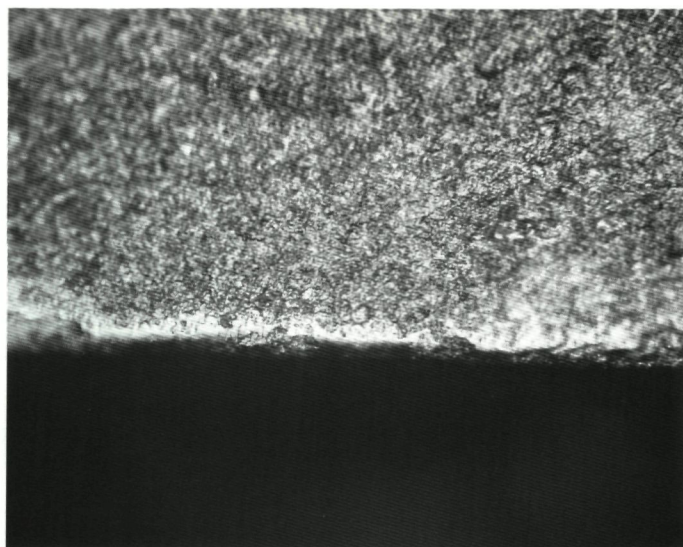


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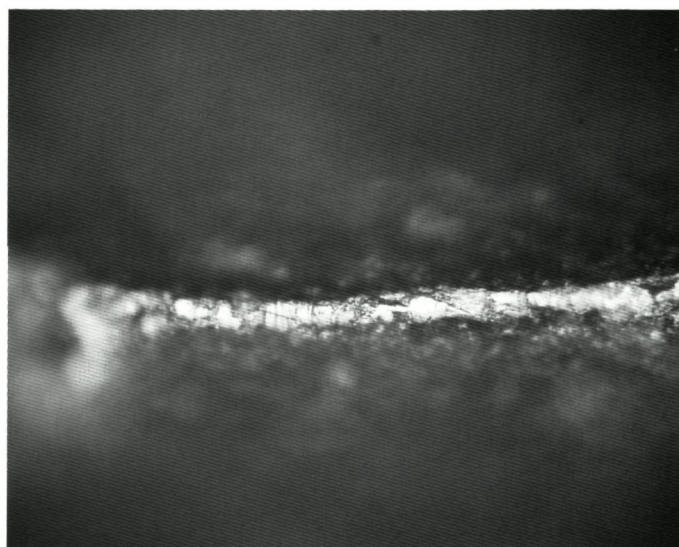


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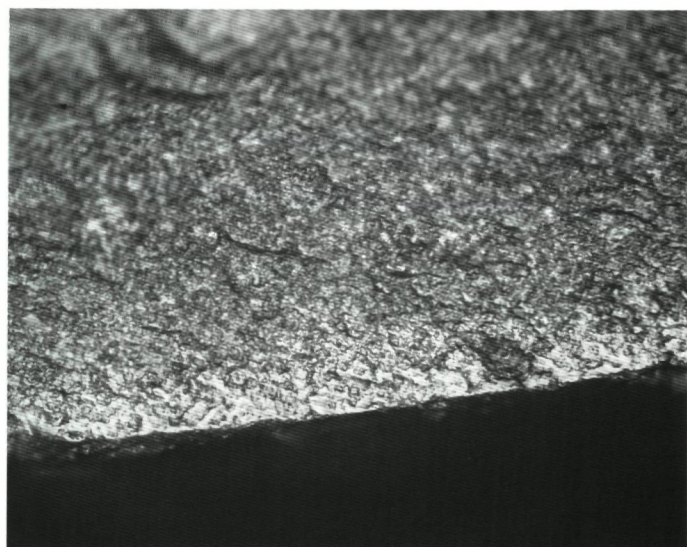
Pl. 112 *Microscopic usewear of bone/antler working on burins and a scraper from Rekem 11 (1-3) & Rekem 5 (4-6). 1-3: micropolish of bone scraping (Pl. 85.19) with views on the burin facet (1), the facet edge (2), and the dorsal face (3); 4-5: sawing bone/antler with a lateral edge (Pl. 80.3), views on the ventral face (4) and on the edge (5); 6: micropolish of bone scraping on a scraper front (Pl. 94.16). Scale: $\times 200$.*



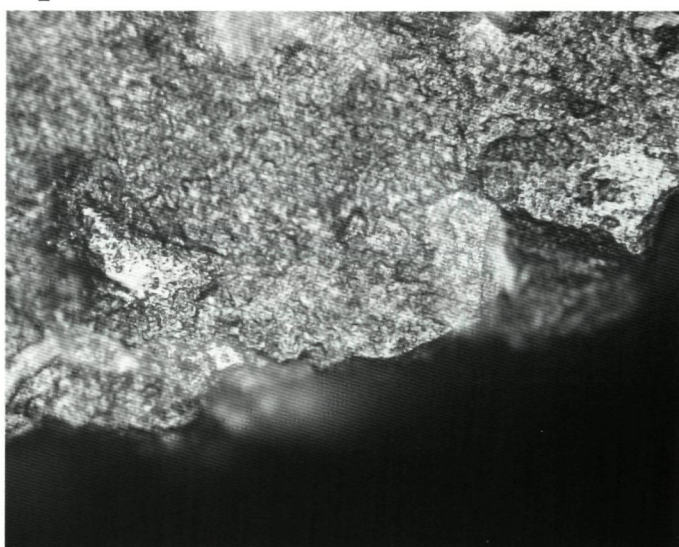
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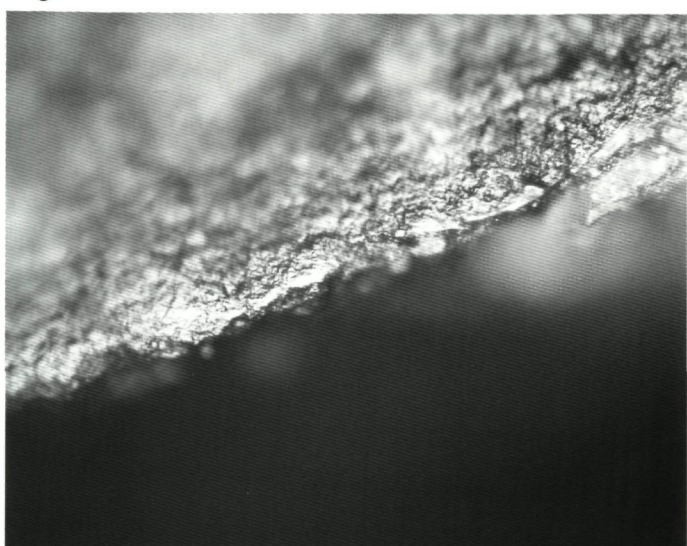
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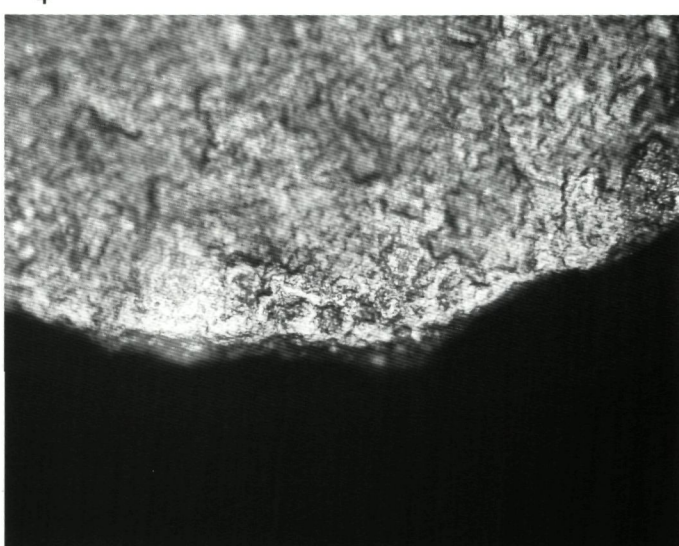
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4

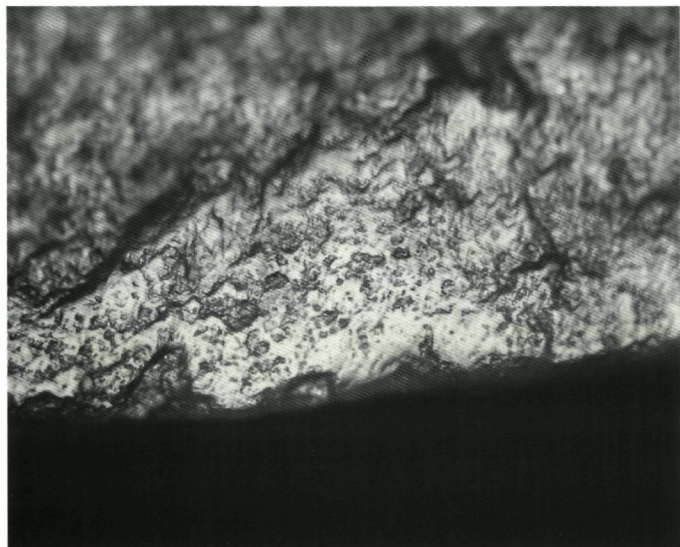


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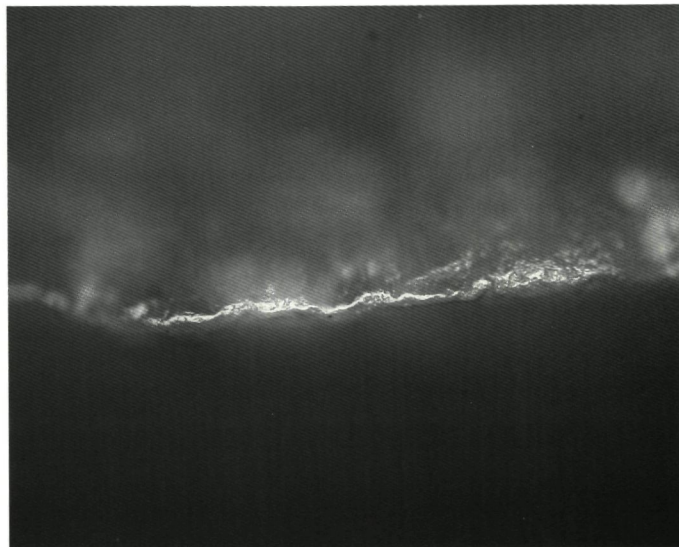


6

Pl. 113 Microscopic usewear of splitting of hard non-woody plants on the ventral face (1) and the edge (2) of a burin spall from Rekem 12 (Pl. 90.16); microscopic firelighter traces on the ventral (3) and the dorsal face (4) of a burin from Rekem 1 (Pl. 77.2); micropolish of fresh/wet hide scraping on the proximal (5) and the distal scraperhead (6) of a double endscraper from Rekem 5 (Pl. 94.1). Scale: $\times 200$.



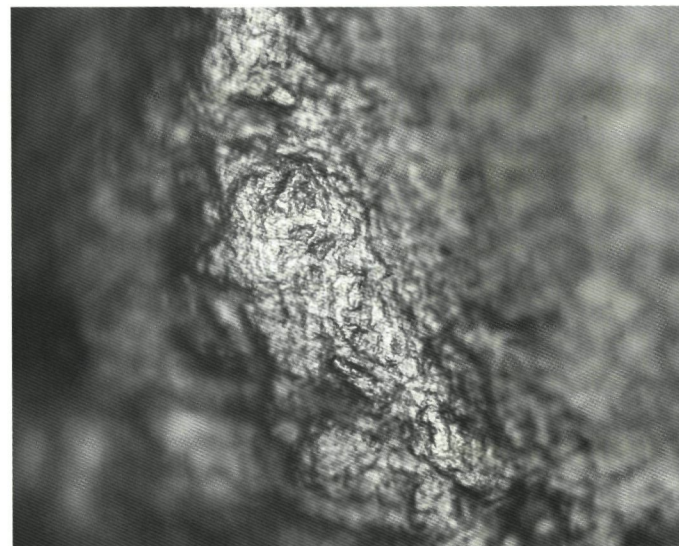
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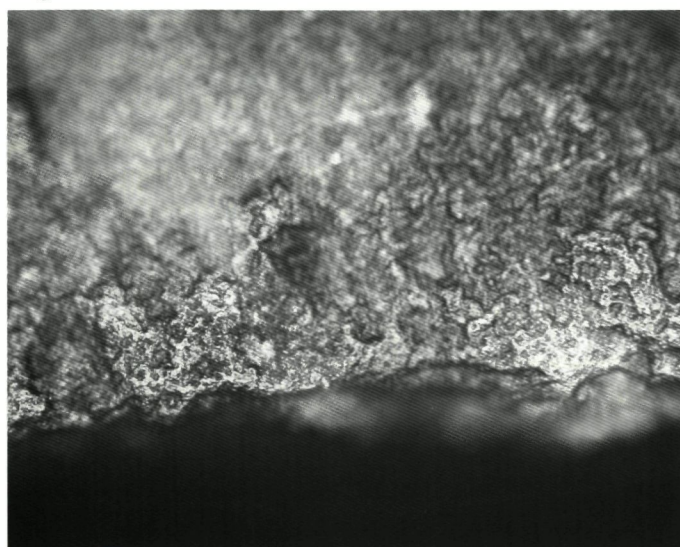
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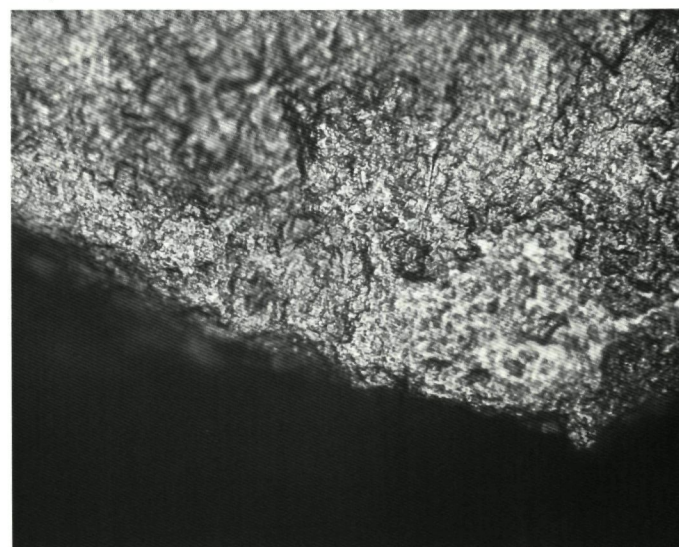
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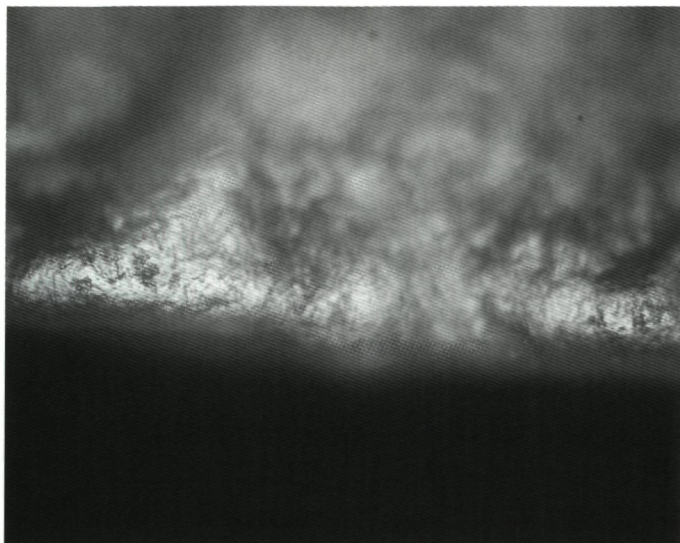


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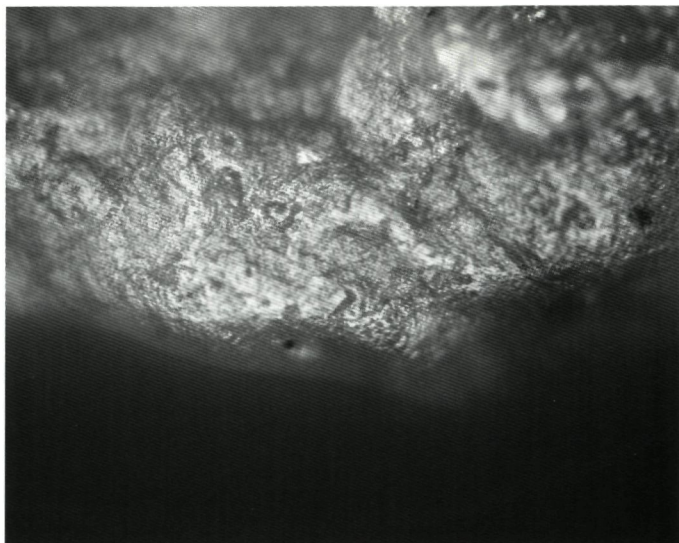


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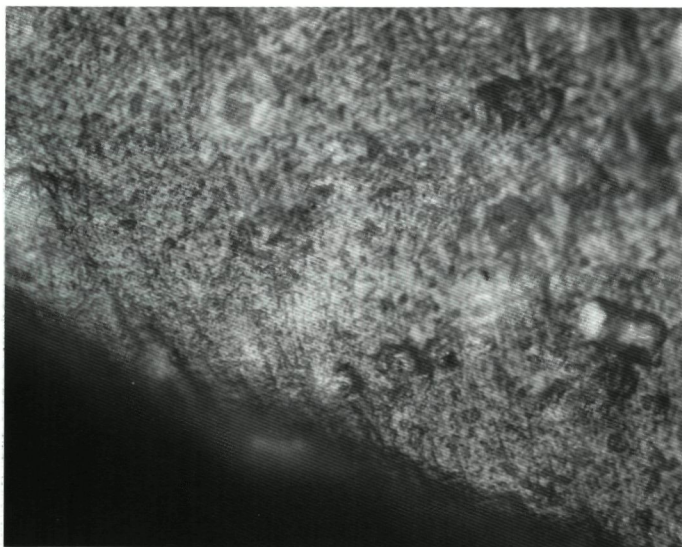
Pl. 114 *Microscopic usewear of dry hide working on endscrapers and a burin from Rekem 10 (1-2, 4), Rekem 11 (3) and Rekem 6 (5-6). 1: scraping traces on a scraping edge cut (Pl. 96.4); 2: scraping traces on a lateral edge of the same piece; 3: scraping traces on the ventral face of a scraperhead (Pl. 96.14); 4: grooving traces on a burin bit (Pl. 85.9); 5: scraping traces on the ventral face of a scraperhead (Pl. 98.18); 6: scraping traces on the scraping edge cut of the same piece. Scale: $\times 200$.*



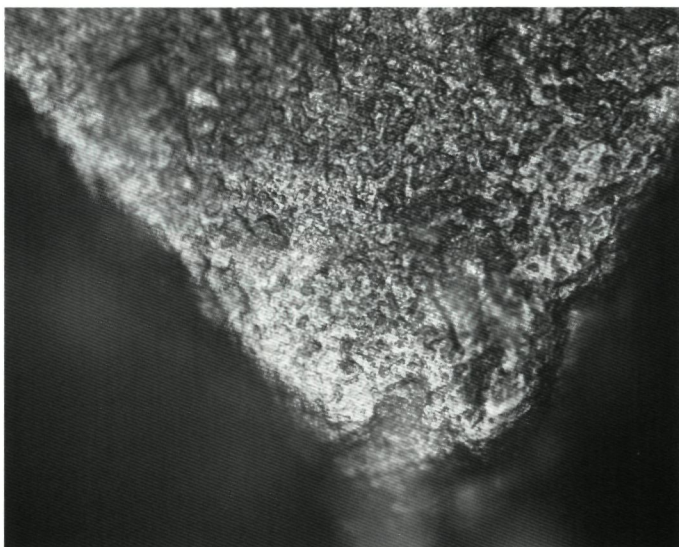
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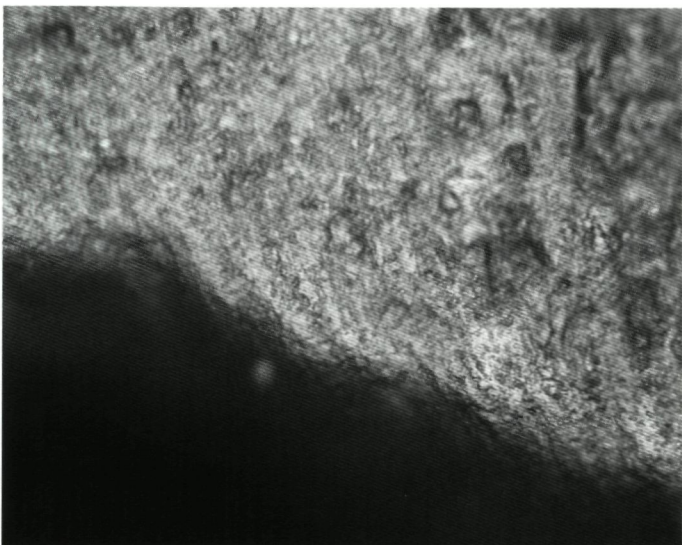
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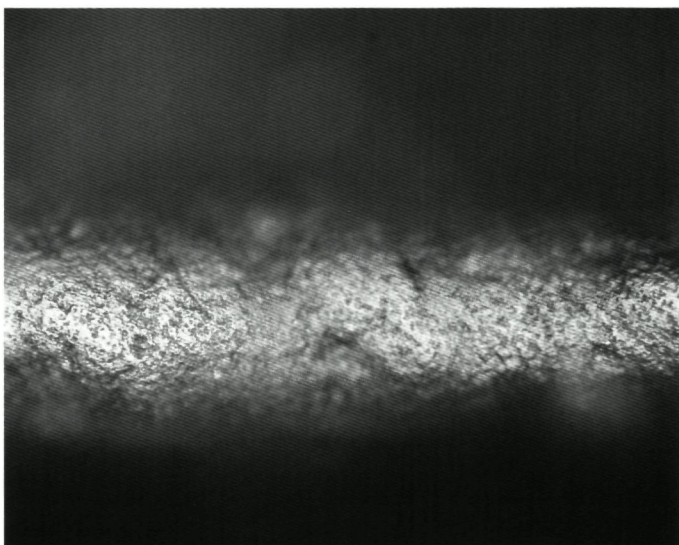
3



4



5



6

Pl. 115 *Irregularities on scraper fronts. 1: regularized scraping edge on a scraper from Rekem 5 (Pl. 93.2); 2: scraperhead with a pronounced overhang on a scraper from Rekem 5 (Pl. 92.9); 3: gibbosity in the scraping edge outline on a scraper from Rekem 6 (Pl. 95.9); 4: crushed scraping edge on a scraper from Rekem 11 (Pl. 96.11); 5: fine indentations on the scraping edge cut on a scraper from Rekem 5 (Pl. 92.10). 6: Interruption of dry hide usewear traces on the same scraper from Rekem 5 (Pl. 92.10; $\times 200$).*

1



2



3



4



5



6

